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FOREWORD

This publication is the twenty-eighth in the Yearbook series initiated in 1963. The same format, which includes recent and historical data from 1956, has been continued for the convenience of users. Although minor changes are made annually whenever new or more detailed information becomes available, in this issue an effort was made to ensure historical data are as accurate and consistent as possible. Please note that some totals may not add due to rounding and metric/Imperial conversions. Statistics published are based on available information as of June 1, 1991. Any revisions to the 1990 data published will be incorporated in the 1991 issue of this publication.

Cooperation between Statistics Canada and Manitoba Agriculture is maintained to secure the best possible agricultural statistics. The assistance of many contributors of information received from other government departments, farm businesses, farmer organizations and farmers is appreciated. Appreciation is also extended to the secretarial staff of the Economics Branch for typing and proofing the manuscript.

As the development, compilation and assembly of material was done by the Market Analysis and Statistics Section, Economics Branch, suggestions for improving the content of the manuscript can be sent to the Economics Branch, Manitoba Agriculture, 903 Norquay Building, Winnipeg, Manitoba, R3C 0P8, PH: (204) 945-3492.

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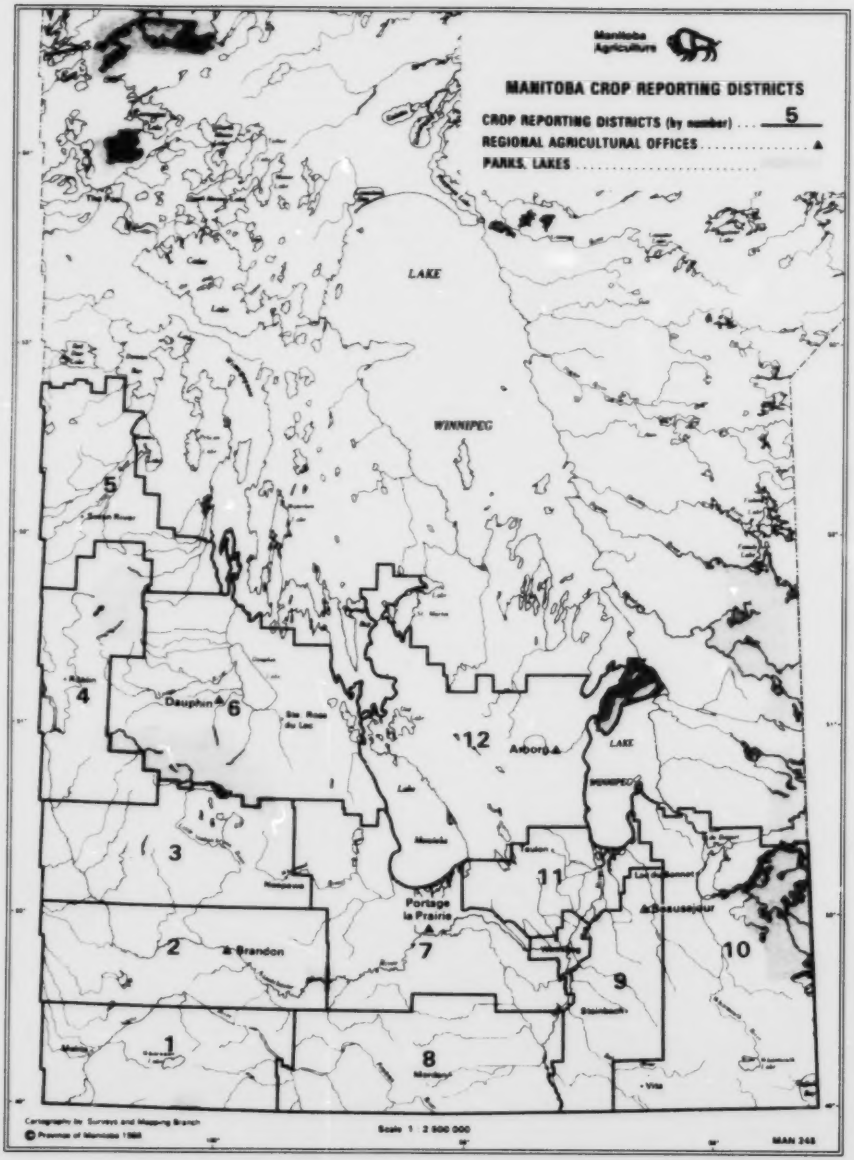
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PARKS, LAKES . . . . . .
LAKE
WINNIPEG
Dauphin
Arborg
LAKE
Portage la Prairie
Brandon
Beausejour
1
2
3
4
5
6
7
8
9
10
11
12
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TABLE 1: Manitoba Agriculture in Perspective - Relationship to Canadian Agriculture

	Canada	Manitoba	Per cent of Canada
	- thousand tonnes -		
Crop Production 1990			
Wheat (all)	31 798.4	5 865.2	18.4
Oats	3 506.5	409.0	11.7
Barley	13 520.7	2 014.0	14.9
Flaxseed	935.3	422.0	45.1
Canola (Rapeseed)	3 324.7	499.0	15.0
	- thousand bushels -		
Wheat (all)	1,168,360.0	215,500.0	18.4
Oats	227,330.0	26,500.0	11.7
Barley	620,990.0	92,500.0	14.9
Flaxseed	36,800.0	16,600.0	45.1
Canola (Rapeseed)	146,600.0	22,000.0	15.0
Livestock and Poultry, 1990			
Cattle and Calves, July 1 (000's)	12,286.8	1,075.0	8.7
Sheep and Lambs, July 1 (000's)	759.2	24.0	3.2
Hogs, July 1 (000's)	10,393.5	1,221.0	11.7
Eggs Graded (dozen)	402,615	43,125	10.7
Milk and Cream Sales (kl)	7 318 006	292 608	4.0
	- number -		
Inspected Livestock Slaughtered, 1990			
Cattle and Calves	3,111,319	92,310	3.0
Hogs	14,185,549	1,874,785	13.2
Sheep and Lambs	259,610	5,121	2.0
	- thousand dollars -		
Farm Income, 1990			
Total Cash Receipts	21,537,024	1,968,895	9.1
Total Net Operating Expenses	16,107,450	1,564,249	9.7
Realized Net Income (incl. dep.)	2,976,380	144,735	4.9
Resources (1986 Census Farms)			
Land in Farms (hectares)	67 825 756	7 740 226	11.4
Improved Land (hectares)	46 009 991	5 403 077	11.7
Land in Farms (acres)	167,601,113	19,126,517	11.4
Improved Land (acres)	113,693,178	13,351,296	11.7
Farm Numbers	293,089	27,336	9.3
Farm Population	930,730	86,505	9.3
Tractors on Farms	728,074	73,945	10.2
	- thousand dollars -		
Capital Investment, 1990	114,296,530	9,674,765	8.5
Land and Buildings	83,600,799	6,437,301	7.7
Machinery and Equipment	20,344,587	2,290,918	11.3
Livestock and Poultry	10,351,144	946,546	9.1

1990 VALUE OF FARM PRODUCTION

The total value of agricultural production in Manitoba in 1990 was estimated at $2,306.2 million. This represented a 10.6 per cent increase above the revised 1989 value of $2,086.1 million and was 20.5 per cent more than the revised 1988 value of $1,913.6 million. The value of crop production was $1,439.7 million, 7.8 per cent more than in 1989 and 28.3 per cent more than the 1988 value of $1,122.3 million. Higher production in most instances was enough to offset the decline in prices for the major crops.

Livestock production was valued at $835.3 million, 15.9 per cent more than in 1989. Higher prices for cattle, hogs and poultry in 1990, combined with increased cattle marketings, contributed to the significant increase in livestock production value.

TABLE 2: Gross Value of Agricultural Production

	1988[R]	1989[R]	1990[P]
	- million dollars -		
Crops	1,122.3	1,336.0	1,439.7
Livestock and Products	762.0	721.0	835.3
Other (Honey & Wax, Bees, Fur, Wildlife, PMU, Forest, etc.)	29.3	29.1	31.2
Total	**1,913.6**	**2,086.1**	**2,306.2**

R = Revised. P = Preliminary.

TABLE 3: 1990 Summary of Crop Production

Crop	Harvested Hectares (000)	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value Dollars Per (tonne)	Farm Value Total ($000)
Wheat	2 198.1	2.67	5 865.2	109.00	639,310
Oats	174.0	2.35	409.0	65.00	26,580
Barley	627.0	3.21	2 014.0	90.00	181,260
Rye	89.0	2.17	193.0	60.00	11,580
Mixed Grains	32.4	2.40	77.6	80.00	6,210
Grain Corn	32.4	4.78	155.0	110.00	17,050
Canola (Rapeseed)	384.0	1.30	499.0	255.00	127,240
Flaxseed	324.0	1.30	422.0	225.00	94,950
Sunflower Seed	58.7	1.78	104.3	235.00	24,510
Buckwheat	24.0	1.09	26.1	165.00	4,310
Canary Seed	14.2	1.50	21.3	212.00	4,510
Dry Beans	17.0	1.35	22.9	397.00	9,100
Dry Peas	40.5	2.01	81.6	178.00	14,520
Fababeans	3.2	1.91	6.2	176.00	1,100
Lentils	24.3	1.72	41.7	419.00	17,470
Mustard Seed	14.2	1.25	17.7	278.00	4,920
Wild Rice (green basis)	—	—	—	1 870.00	935
Forage Seeds					8,210
Fodder Corn	12.1	22.50	272.0	21.00	5,710
All Tame Hay	668.0	4.62	3 084.0	46.00	141,860
Sugar Beets	10.9	32.17	351.5	40.00**	14,060
Horticulture					
Potatoes	19.0	16.72	318.1	151.00	48,024
Vegetables	1.5				10,755
Fruits					1,932
Greenhouse and Mushrooms					16,500
Nursery Products and Sod					7,100
TOTAL	**4 768.5**				**1,439,706**

TABLE 3: Continued

Crop	Harvested Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Dollars Per (bushel)	Farm Value Total ($000)
Wheat	5,430	39.7	215,500	2.97	639,310
Oats	430	61.6	26,500	1.00	26,580
Barley	1,550	59.7	92,500	1.96	181,260
Rye	220	34.5	7,600	1.52	11,580
Mixed Grains	80	47.5	3,800	1.63	6,210
Grain Corn	80	76.3	6,100	2.79	17,050
Canola (Rapeseed)	950	23.2	22,000	5.78	127,240
Flaxseed	800	20.8	16,600	5.72	94,950
		(pounds)	(000 pounds)	(pound)	
Sunflower Seed	145	1,590	230,000	0.107	24,510
		(bushels)	(000 bushels)	(bushel)	
Buckwheat	60	20.0	1,200	3.59	4,310
		(pounds)	(000 pounds)	(pound)	
Canary Seed	35	1,340	47,000	0.096	4,510
Dry Beans	42	1,200	50,400	0.18	9,100
		(bushels)	(000 bushels)	(bushel)	
Dry Peas	100	30.0	3,000	4.84	14,520
		(pounds)	(000 pounds)	(pound)	
Fababeans	8	1,700	13,600	0.08	1,100
Lentils	60	1,533	92,000	0.19	17,470
Mustard Seed	35	1,110	39,000	0.126	4,920
Wild Rice (green basis)	—	—	1,100	0.85	935
Forage Seeds	—				8,210
		(tons)	(000 tons)	(ton)	
Fodder Corn	30	10.00	300	19.00	5,710
All Tame Hay	1,650	2.06	3,400	42.00	141,860
Sugar Beets	27	14.35	387	36.29**	14,060
Horticulture					
		(cwt)	(000 cwt)	(cwt)	
Potatoes	47	149.2	7,012	6.85	48,024
Vegetables	4				10,755
Fruits					1,932
Greenhouse and Mushrooms					16,500
Nursery Products and Sod					7,100
TOTAL	**11,783**				**1,439,706**

NOTE: Numbers may not all add due to rounding and/or metric/Imperial conversion. Information as of June 1, 1991.

**Value including deficiency payments, if any.

SOURCE: Statistics Canada; Manitoba Agriculture.

TABLE 4: 1990 Summary of Livestock Production

	Number (000)	Value Per Unit $	Total Value ($000)
CATTLE:			
Commercial Marketings (including exports)	403.1		
Inventory Change	26.0		
Local Slaughterings	8.0		
TOTAL CATTLE	**437.1**	**762**	**333,000**
HOGS:			
Commercial Marketings (including exports)	1,957.0		
Inventory Change	21.0		
Local Slaughterings	16.0		
TOTAL HOGS	**1,994.0**	**124.00**	**247,000**
SHEEP AND LAMBS:			
Manitoba-produced Marketings	21.7	1,165	
Wool - kilograms	51 700	59	
- pounds	114,000		
TOTAL SHEEP & LAMBS & WOOL			**1,224**
DAIRY PRODUCTS:			
Milk Equivalent - kilolitres	292 608		118,455
Supplementary Payments			10,004
TOTAL DAIRY PRODUCTS			**128,459**
POULTRY:			
Eggs (dozens)	52,534		59,992
Meat			63,082
TOTAL POULTRY			**123,074**
Other Livestock (Bison, pheasants, llamas, rabbits, slaughter horses, ostriches, etc.)			2,500
TOTAL LIVESTOCK PRODUCTION			**835,257**

SOURCE: Statistics Canada, Agriculture Canada, Manitoba Agriculture.

TABLE 5: Farm Input Price Indices (1986 = 100), Western Canada

	1988	1989	1990
Total Farm Input	**101.7**	**106.2**	**108.3**
Building and Fencing	103.2	105.1	107.0
Machinery and Motor Vehicles	100.6	102.9	106.9
Crop Production	92.1	99.0	98.1
Animal Production	110.9	110.8	108.5
Supplies and Services	102.2	102.1	105.3
Hired Farm Labour	107.0	112.5	116.3
Property Taxes	103.2	107.2	112.1
Interest	105.5	119.9	128.9
Farm Rent	83.2	95.2	96.8

SOURCE: Statistics Canada, Cat. No. 62-004, Fourth Quarter, 1990.

TABLE 6: Farm Product Price Indices (1986 = 100), Manitoba

	1988	1989	1990
Total Index	**106.4**	**115.9**	**109.2**
Total Crops	**116.2**	**134.1**	**116.6**
Cereals	113.2	134.4	112.1
Oilseeds	130.5	135.5	127.9
All Other Crops[1]	109.9	128.2	128.1
Total Livestock and Products	**96.1**	**96.7**	**101.4**
Cattle and Calves	106.7	105.4	108.1
Hogs	74.6	72.4	88.6
Poultry	97.5	105.8	104.1
Eggs	98.8	106.5	94.4
Dairy	104.1	109.1	109.4
Other Livestock and Products[2]	84.9	74.6	80.1

[1]Includes fruits, vegetables (including potatoes), sugar beets and sunflower seed.

[2]Includes lambs, honey and fur.

SOURCE: Statistics Canada, Cat. No. 62-003.

TABLE 7: Farm Cash Receipts, 1988-1990

	1988	1989	1990
	- - thousands of dollars - -		
Wheat - Excluding Durum	369,236	311,554	477,777
Wheat - Excluding Durum, CWB Payments[1]	44,142	71,234	65,075
Durum wheat	22,474	21,656	21,082
Durum wheat, CWB Payments[1]	5,212	6,457	1,416
Total Wheat	**391,710**	**333,210**	**498,859**
Total Wheat, CWB Payments[1]	**49,354**	**77,691**	**66,491**
Oats	11,579	11,652	8,321
Oats, CWB Payments[1]	1,055	1,974	417
Barley	60,668	78,833	81,343
Barley, CWB Payments[1]	2,669	7,925	14,389
Deferred Grain Receipts	-92,505	-71,880	-62,624
Liquidation of Deferred Grain Receipts	64,580	92,505	71,880
Rye	5,048	7,713	7,139
Flaxseed	71,932	72,457	56,207
Canola	146,263	127,983	99,731
Corn	10,285	10,552	11,995
Sugar Beets	9,383	13,782	16,326
Potatoes	49,475	37,111	41,931
Vegetables	14,915	13,769	16,241
Floriculture and Nursery	10,148	11,455	12,153
Mustard Seed	1,989	2,379	4,176
Sunflower Seed	9,588	13,587	20,919
Lentils	2,312	5,330	14,858
Canary Seed	1,836	5,400	4,062
Dry Peas	14,419	12,541	12,347
Forage and Grass Seed	14,222	9,379	11,505
Hay and Clover	869	2,328	1,800
Forest Products	1,507	1,569	1,562
Miscellaneous Crops	11,946	12,310	14,168
TOTAL CROPS	**865,247**	**891,555**	**1,026,196**
Cattle	242,690	226,698	232,385
Calves	48,854	46,159	37,413
Hogs	221,059	228,741	254,017
Sheep	191	123	117
Lambs	1,526	1,223	1,386
Dairy Products	118,185	121,201	118,455
Hens and Chickens	36,464	38,419	40,478
Turkeys	14,591	15,676	16,530
Eggs	48,753	52,465	44,823
Wool	80	73	59
Honey	7,308	6,266	6,597
Furs	1,897	1,486	822
Miscellaneous Livestock	20,023	19,941	20,333
TOTAL LIVESTOCK AND PRODUCTS	**761,621**	**758,471**	**773,415**
Crop Insurance Payments[2]	92,745	166,495	89,049
Western Grain Stabilization Payments	131,154	31,576	0
Agricultural Stabilization Act			
- Price Stabilization	5,276	1,337	4
- Tripartite Plans	13,759	72,074	16,422
Provincial Stabilization Programs	656	803	0
Dairy Subsidy	10,980	10,624	10,004
Other Payments	177,261	166,944	53,805
TOTAL DIRECT PAYMENTS	**431,831**	**449,853**	**169,284**
TOTAL CASH RECEIPTS	**2,058,699**	**2,099,879**	**1,968,895**

[1]Participation payments made by the CWB to producers for crops delivered in previous year.

[2]Includes payments under the Crop Insurance Act and private hail insurance plans.

SOURCE: Statistics Canada; Agriculture Canada; Manitoba Agriculture.

TABLE 8: Farm Expenditures, 1988-1990

	1988	1989	1990
	--- thousands of dollars ---		
Property Taxes	51,280	51,622	54,100
Rebates	6,919	0	0
Net Property Taxes	**44,361**	**51,622**	**54,100**
Cash Rent	54,398	58,745	58,745
Share Rent	23,995	27,033	31,953
Total Rent	**78,393**	**85,778**	**90,698**
Cash Wages	115,303	124,066	127,788
Room & Board	1,596	1,646	1,725
Total Wages	**116,899**	**125,712**	**129,513**
Interest	169,764	179,230	191,210
Rebates	1,651	2,276	9,624
Net Interest	**168,113**	**176,954**	**181,586**
Repairs to Buildings	30,816	34,444	34,782
Repairs to Fences	6,508	7,289	7,072
Building & Fence Repairs	**37,324**	**41,733**	**41,854**
Electricity	34,072	36,558	37,655
Telephone	9,284	10,432	10,328
Heating Fuel	8,188	8,703	9,051
Rebates	0	0	0
Net Heating Fuel	8,188	8,703	9,051
Total	**51,544**	**55,693**	**57,034**
Machinery Fuel	124,058	132,969	165,945
Rebates	5,468	3,521	3,304
Net Machinery Fuel	118,590	129,448	162,641
Machinery Repairs & Other	133,326	145,468	152,741
Total Machinery	**251,916**	**274,916**	**315,382**
Fertilizer	194,405	185,248	175,800
Rebates	0	0	0
Net Fertilizer	**194,405**	**185,248**	**175,800**
Pesticides	119,542	115,739	121,642
Rebates	0	0	0
Net Pesticides	119,542	115,739	121,642
Commercial Seed	46,064	48,184	45,823
Irrigation	0	0	0
Twine, Wire & Containers	6,126	6,300	7,207
Crop & Hail Insurance	30,357	50,665	48,747
Total Other Crop	**202,089**	**220,888**	**223,419**
Commercial Feed	164,801	183,640	161,236
Rebates	0	0	0
Net Feed	**164,801**	**183,640**	**161,236**
Livestock Purchases	15,962	13,097	13,843
A.I. & Veterinary	14,802	16,290	16,371
Rebates	0	0	0
Net A.I. & Veterinary	14,802	16,290	16,371
Total Other Livestock	**30,764**	**29,387**	**30,214**
Business Insurance	9,865	10,967	11,493
Custom Work	25,796	17,544	19,719
Stabilization Premiums	22,162	34,006	32,234
Other	36,724	38,997	39,967
Total Miscellaneous	**94,547**	**101,514**	**103,413**
Operating Expenses Before Rebates	1,449,194	1,538,882	1,577,177
Total Rebates	14,038	5,797	12,928
Operating Expenses After Rebates	**1,435,156**	**1,533,085**	**1,564,249**
Depreciation on Building	16,265	17,241	18,586
Depreciation on Machinery	250,667	253,855	255,437
Total Depreciation	**266,932**	**271,096**	**274,023**
TOTAL EXPENSES BEFORE REBATES	**1,716,126**	**1,809,978**	**1,851,200**
TOTAL REBATES	**14,038**	**5,797**	**12,928**
TOTAL EXPENSES AFTER REBATES	**1,702,088**	**1,804,181**	**1,838,272**

SOURCE: Statistics Canada; Agriculture Canada; Manitoba Agriculture.

Farm Cash Receipts

Farm cash receipts include proceeds from the sale of agricultural products sold off farm through regular market channels. All deficiency, subsidy, supplementary and final Canadian Wheat Board payments are included. In 1990, total cash receipts were estimated at $1.969 billion, 6.2 per cent below the 1989 level of $2.100 billion.

Farm Net Income

Realized net farm income is determined by adding total cash receipts, income-in-kind and total payments and subtracting total expenses and depreciation charges. In 1990, realized net farm income amounted to $144.7 million, 53.2 per cent less than 1989. Realized net farm income per farm in 1990 was estimated at $5,460, 53.0 per cent less than the revised 1989 value of $11,550 and 60.0 per cent below the 1988 estimate of $13,630*.

*Based on 1988 estimate of 27,200 farms, 1989 estimate of 26,800 farms and 1990 estimate of 26,500 farms.

TABLE 9: Farm Income Summary, 1988-1990

	1988	1989	1990
	- - - - thousands of dollars - - - -		
Cash Receipts	1,626,868	1,650,026	1,799,611
Total Payments	431,831	449,853	169,284
Total Cash Receipts	**2,058,699**	**2,099,879**	**1,968,895**
Net Operating Expenses	1,435,156	1,533,085	1,564,249
Net Cash Income	**623,543**	**566,794**	**404,646**
Income-In-Kind	14,065	13,817	14,112
Depreciation Charges	266,932	271,096	274,023
Realized Net Income	**370,676**	**309,515**	**144,735**
Value of Inventory Change	-220,191	141,884	346,164
TOTAL NET INCOME	**150,485**	**451,399**	**490,899**

SOURCE: Statistics Canada, Agriculture Canada

TABLE 10: Farm Capital Investment, 1988-1990

	1988	1989[R]	1990[P]
	- - - thousands of dollars - - -		
Land and Buildings	5,633,511	5,971,522	6,437,301
Machinery and Equipment	2,243,476	2,275,415	2,290,918
Livestock and Poultry	816,817	864,062	946,546
TOTAL	**8,693,804**	**9,110,999**	**9,674,765**

SOURCE: Statistics Canada

TABLE 11: Farm Debt Outstanding, 1988-1990

	1988[R]	1989[R]	1990[P]
	- - - thousands of dollars - - -		
Chartered Banks[1]	671,407	655,328	682,993
Federal Government Agencies[2]	346,359	306,463	289,286
Provincial Government Agencies	225,365	219,189	241,006
Credit Unions	295,644	315,952	323,000
Insurance, Trust, Loan Companies	11,978	12,337	12,300
Private Individuals and Others[3]	250,350	268,423	273,000
Advance Payment Programs	75,004	19,840	286,093
TOTAL[4]	**1,876,107**	**1,797,532**	**2,107,678**

[1]Includes loans under F.I.L.A.
[2]Includes F.C.C., V.L.A. and F.B.D.B.
[3]Includes supply companies, dealers, and stores.
[4]Totals may not add due to rounding.

SOURCE: Statistics Canada

TABLE 12: Farm Structure 1981, 1986

	1981 Census	1986 Census
People and Land		
Total Manitoba Population	1,026,241	1,071,232
Farm Population	98,375	86,505
Total Manitoba Land Base (thousand units)		
Hectares	54 770	54 770.5
Acres	135,342	135,340.8
Farmland		
Hectares	7 736	7 740.2
Acres	19,115	19,126.5
Improved		
Hectares	5 504.0	5 403.1
Acres	13,600.6	13,351.3
Cropland: (thousand units)		
Seeded to Crops:		
Hectares	4 420.4	4 519.3
Acres	10,923.0	11,167.5
Summerfallow:		
Hectares	598.3	509.2
Acres	1,478.5	1,258.3
Hay and Pasture:		
Hectares	2 497.7	2 541.0
Acres	6,172.0	6,279.0
Other Improved:		
Hectares	132.8	99.6
Acres	328.1	246.1
Unimproved:		
Hectares	2 231.0	2 337.1
Acres	5,513.0	5,775.2
Farms and Finances		
Census Farms	29,442	27,336
Average Size per Census Farm		
Hectares	263	283
Acres	649	700
Average Value per Unit		
Hectares	$1,028.86	$850.66
Acres	$416.36	$344.25
Average Capital per Farm	$354,968.00	$349,525.00
Average Realized Net Income per Farm	$7,928.00	$18,406.00
Average Debt per Farm	$52,269.00	$71,603.00
Average Expenses per Farm	$49,249.00	$61,828.00
Type of Organization		
Individual/Family Farm	25,701	22,869
Partnership		
With written agreement	688	761
With no written agreement	1,965	2,468
Corporation		
Family	882	1,035
Other	85	81
Institution	—	16
Community Pasture	—	29
Other	—	77
Tenure of Operators		
Owner	16,083	13,784
Tenant	2,259	2,245
Part-Owner, Part-Tenant	11,100	11,307

SOURCE: Statistics Canada, Census of Agriculture

CROP PRODUCTION

General Conditions

Precipitation over the winter months (November 1989 to March 1990) was well above normal for most of southern Manitoba. However, loss of moisture through evaporation was significant. In April 1990, precipitation in the Province ranged from 50 per cent of normal in Winnipeg to 200 per cent normal in the northern Interlake and Swan River areas.

At this time, soil moisture levels on stubble land appeared adequate, except for the northwestern Interlake and parts of the Southwest Region. Soil moisture conditions for forages and pasture were considered dry in large portions of the Interlake, Central and in some parts of the Southwest Regions.

By May 4, unfavourable weather conditions precluded any but a very small area of seeding throughout the province. March seeding intentions released on March 26th, 1990, called for increases in seeded areas of wheat and flaxseed. However, areas seeded to oats, barley and canola were expected to decline below 1989 levels. The summerfallow area was also expected to decline.

During May, precipitation significantly improved the moisture situation. In fact, most weather stations were reporting above-average precipitation from April 1, 1990. Some areas, especially crop district 9, received excessive moisture resulting in some flooding. Still, in crop districts 1 and 2 there was concern about low subsoil moisture reserves.

By June 8th, grain and oilseed crops were rated in fair to good condition throughout the province. Special crop conditions were variable. Pasture growth and development was rated adequate and hay quality was good.

By July 6th, all crop districts had received adequate or more than adequate precipitation. Excessive topsoil moisture was present in crop districts 4, 5, 9, 10, 11 and 12. Most crops were considered to be in good condition across the province. In isolated areas of the Interlake and Eastern Regions, oilseed crops were in poor condition due to excessive moisture levels. Crop damage ranged from minor to extensive. Some hail damage was reported in the Northwest, Central and Eastern Regions. Lodging of crops was also reported in those areas. In the most southern parts of the province, cereal crops were well into the heading stage while in other areas varying degrees of development existed. Canola was generally in the rosette stage and flax was tillering or flowering. Although at this time, haying was progressing throughout, wet fields were limiting progress in some areas. Pasture growth was good to excellent. Weed infestations were normal to above normal, while grasshoppers and flea beetles caused problems in most crop districts. Farmers in various areas of the province were expressing concerns about tan spot and septoria diseases in cereals and sclerotinia in canola fields.

Reports from the Winnipeg Climate Centre showed that at August 10th, 1990, most weather stations in Manitoba had recorded above normal precipitation since April 1, 1990. However, at this time, reports indicated that most of the topsoil and subsoil were moisture deficient. In fact, over the 3-4 weeks prior to August 12th the weather was hot and dry across the province causing premature ripening of crops.

Despite the premature ripening, most crops were considered in good condition. About ten per cent of cereal crops seeded in the spring were in the swath stage and five per cent had been combined by August 10th, 1990. Fall rye harvesting was progressing well and average to above average yields were expected at this time. Grasshoppers and aphids were considered problems across the province. Pasture conditions were deteriorating because of the recent hot dry weather.

In general, conditions were favourable for crop production in 1990. The amount of precipitation had been at least near-normal during most of the growing season. Temperatures were also near normal. By September 7th, 1990 soil moisture conditions were rated normal to dry and soil under perennial crops was dry.

By the first week in September, 60-70 per cent of all cereal crops and 45-50 per cent of canola had been harvested. Conversely, only a very small amount of flax was combined. Provincially, in early September, very little fall cultivation had been done with most farmers indicating no change in area seeded to winter wheat and fall rye. Feed supplies were rated adequate and hay averaged $46/tonne ($42/ton) while straw was being sold at $15/tonne ($14/ton).

WHEAT

About 2 198 100 hectares of wheat (5,430,000 acres) were planted in 1990. Total production was estimated at 5 865 200 tonnes (215,500,000 bushels), a rise of 44.3 per cent above the 1989 level. The 1990 wheat crop had an estimated value of production of $639.3 million, a 5.6 per cent increase over the revised 1989 value of $605.4 million. The area harvested, average yields and total production for 1989 and 1990 are shown below.

TABLE 13: Area, Yield and Production of Wheat, 1989, 1990

	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
Crop District	**1989**	**1990[P]**	**1989[R]**	**1990[P]**	**1989[R]**	**1990[P]**
1	273.3	305.4	1 460	2 540	400.3	776.1
2	242.4	274.9	1 290	2 630	312.4	724.1
3	231.5	241.4	1 770	2 710	410.8	653.6
4	102.4	104.9	1 970	2 690	201.8	282.0
5	94.3	94.5	2 250	2 610	212.3	246.9
6	145.0	138.9	1 910	2 510	277.0	349.0
7	280.4	293.3	2 350	2 800	658.8	821.0
8	385.4	394.8	2 070	2 900	798.8	1 145.6
9	163.0	168.0	2 500	2 510	408.0	421.0
10	20.0	21.0	2 050	2 140	41.0	45.0
11	98.0	104.6	2 210	2 500	217.0	261.9
12	58.4	56.4	2 140	2 460	124.9	139.0
PROVINCE	**2 094.1**	**2 198.1**	**1 940**	**2 670**	**4 063.1**	**5 865.2**

	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
Crop District	**1989**	**1990**	**1989[R]**	**1990[P]**	**1989[R]**	**1990[P]**
1	676	756	21.8	37.6	14,730	28,459
2	599	678	19.2	39.3	11,475	26,633
3	573	596	26.4	40.3	15,105	24,024
4	254	259	29.1	40.0	7,405	10,360
5	234	234	33.2	38.8	7,785	9,084
6	357	342	28.5	37.4	10,177	12,801
7	692	724	34.9	41.6	24,176	30,150
8	953	977	30.9	43.1	29,416	42,126
9	403	416	37.2	37.2	15,005	15,458
10	50	52	29.9	31.7	1,497	1,650
11	241	258	33.0	37.4	7,956	9,648
12	143	138	32.0	37.0	4,573	5,107
PROVINCE	**5,175**	**5,430**	**28.9**	**39.7**	**149,300**	**215,500**

NOTE: Totals may not all add due to rounding.

SOURCE: Statistics Canada.

Durum wheat is included with total wheat production statistics. In 1990 the seeded area was estimated at 142 000 hectares (350,000 acres), unchanged from the 1989 level. Average yield was 2 780 kilograms per hectare (41.4 bushels per acre) compared to 1 650 kilograms (24.6 bushels) in 1989. Total production was estimated at 395 000 tonnes (14,500,000 bushels), an increase of 68.6 per cent from 1989.

OATS

Total production of oats in 1990 was estimated at 409 000 tonnes (26.5 million bushels) with a total farm value of $26.6 million, down 10 per cent from the revised value of $29.5 million in 1989. A 40 per cent increase in average yield in 1990 offset the 14 per cent decrease in harvested area.

TABLE 14: Area, Yield and Production of Oats, 1989, 1990

Crop District	Seeded Hectares (000)		Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1989	1990	1989	1990	1989	1990	1989	1990
1	21	16	16	13	1 310	2 310	21	30
2	37	30	26	27	960	2 370	25	64
3	19	20	15	17	1 530	2 410	23	41
4	10	9	8	8	1 750	2 380	14	19
5	18	11	12	11	1 670	2 000	20	22
6	27	25	21	21	1 670	2 000	35	42
7	41	34	40	29	2 030	2 280	81	66
8	19	15	19	14	1 530	2 790	29	39
9	15	10	15	8	2 270	2 630	34	21
10	6	3	6	3	1 670	2 330	10	7
11	13	13	13	10	1 920	2 500	25	25
12	17	16	11	13	2 000	2 540	22	33
PROVINCE	**243**	**202**	**202**	**174**	**1 680**	**2 350**	**339**	**409**

Crop District	Seeded Acres (000)		Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1989	1990	1989	1990	1989	1990	1989	1990
1	51	40	40	32	34.1	60.8	1,363	1,945
2	92	74	64	66	25.3	63.2	1,622	4,170
3	48	49	37	41	40.7	64.5	1,507	2,645
4	24	22	20	20	44.4	62.4	888	1,247
5	44	28	30	26	43.4	55.2	1,302	1,436
6	66	63	53	52	42.4	52.8	2,248	2,747
7	102	85	99	74	52.5	57.7	5,200	4,267
8	48	37	46	35	41.5	71.7	1,908	2,510
9	38	24	37	20	60.5	67.4	2,237	1,347
10	15	8	15	7	44.1	62.1	662	435
11	31	31	31	24	52.5	66.2	1,627	1,589
12	41	39	28	33	51.3	65.5	1,436	2,162
PROVINCE	**600**	**500**	**500**	**430**	**44.0**	**61.6**	**22,000**	**26,500**

SOURCE Statistics Canada

Oats for hay are not included in the above data. In 1990, about 28 000 hectares (70,000 acres) of oats were planted and cut for hay.

BARLEY

Barley production in 1990 was 2 014 000 tonnes (92,500,000 bushels), up 30.3 per cent from the 1989 level. Six hundred and twenty-seven thousand hectares (1,550,000 acres) were harvested, yielding an average of 3 210 kilograms per hectare (59.7 bushels per acre). The total farm value of production was $181.3 million, up less than 2 per cent from the 1989 level. The area, yield and production of the 1989 and 1990 barley crops are shown below. Twenty thousand, two hundred thirty-five hectares (50,000 acres) were planted and cut for fodder in 1990.

TABLE 15: Area, Yield and Production of Barley, 1989, 1990

Crop District	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1989	1990	1989	1990	1989	1990
1	57	55	1 840	3 360	105	185
2	96	93	1 490	3 330	143	310
3	98	93	2 270	3 330	222	310
4	24	25	2 460	3 160	59	79
5	30	30	2 370	2 930	71	88
6	33	35	2 360	3 110	78	109
7	89	80	2 960	3 250	263	260
8	101	102	2 650	3 380	268	345
9	49	49	3 290	2 710	161	133
10	6	8	2 500	2 500	15	20
11	39	33	2 590	3 000	101	99
12	25	24	2 400	3 170	60	76
PROVINCE	**647**	**627**	**2 390**	**3 210**	**1 546**	**2 014**

Crop District	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1989	1990	1989	1990	1989	1990
1	142	136	34.1	62.4	4,837	8,483
2	237	230	27.7	62.0	6,573	14,260
3	242	231	42.1	61.7	10,196	14,258
4	60	62	45.1	58.3	2,708	3,614
5	74	73	44.3	55.2	3,278	4,027
6	81	87	44.1	57.5	3,574	5,004
7	220	200	54.9	59.7	12,087	11,930
8	249	251	49.3	63.2	12,264	15,864
9	122	120	60.5	50.9	7,385	6,103
10	16	19	43.8	49.2	700	934
11	96	81	48.5	56.2	4,655	4,550
12	61	60	45.0	57.9	2,743	3,473
PROVINCE	**1,600**	**1,550**	**44.4**	**59.7**	**71,000**	**92,500**

SOURCE Statistics Canada

RYE

Total farm value of rye production was estimated at $11.6 million in 1990, 25 per cent less than 1989. The harvested area was 89 000 hectares (220,000 acres) in 1990 compared to 93 100 hectares (230,000 acres) in 1989. The average yield was estimated at 2 170 kilograms per hectare (34.5 bushels per acre) in 1990 compared to 2 130 kilograms per hectare (33.9 bushels per acre) in 1989.

TABLE 16: Area, Yield and Production of All Rye, 1989, 1990

Crop District	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1989	1990	1989	1990	1989	1990
1	19.5	17.8	2 080	2 220	40.5	39.6
2	18.6	23.2	1 850	1 980	34.4	46.0
3	6.5	5.2	2 000	2 210	13.0	11.5
4	2.0	1.9	1 800	2 260	3.6	4.3
5	2.1	1.1	2 480	2 270	5.2	2.5
6	1.5	1.2	2 470	2 670	3.7	3.2
7	32.9	29.3	2 270	2 210	74.6	64.8
8	7.9	7.2	2 380	2 420	18.8	17.4
9	1.3	1.3	2 000	1 540	2.6	2.0
10	0.4	0.4	2 250	2 000	0.9	0.8
11	0.2	0.2	2 000	2 500	0.4	0.5
12	0.2	0.2	1 500	2 000	0.3	0.4
Province	**93.1**	**89.0**	**2 130**	**2 170**	**198.0**	**193.0**

Crop District	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1989	1990	1989	1990	1989	1990
1	48.3	44.0	33.0	35.4	1,595.8	1,558.1
2	45.9	57.3	29.5	31.6	1,354.9	1,811.4
3	16.1	12.9	31.9	35.2	512.8	454.0
4	4.9	4.7	29.2	36.0	143.2	169.3
5	5.1	2.8	40.0	34.8	204.2	97.4
6	3.8	3.0	38.5	42.2	146.3	126.7
7	81.4	72.5	36.1	35.3	2,941.2	2,556.8
8	19.4	17.8	38.1	38.4	738.8	683.7
9	3.2	3.1	31.6	24.8	101.0	77.0
10	0.9	0.9	38.3	34.6	34.5	31.1
11	0.6	0.6	23.7	34.5	14.2	20.7
12	0.4	0.4	32.8	34.5	13.1	13.8
PROVINCE	**230.0**	**220.0**	**33.9**	**34.5**	**7,800.0**	**7,600.0**

SOURCE: Statistics Canada.

MIXED GRAINS

An estimated 77 600 tonnes (3.8 million bushels) were produced in 1990. This level of production was 26.8 per cent higher than in 1989. Planted area in 1990 was 32 400 hectares (80,000 acres), an increase of 14.5 per cent from the 1989 level. Mixed grains total value of production in 1990 was $6.2 million, 1.5 per cent more than the 1989 value of $6.1 million.

CANOLA (RAPESEED)

Canola (rapeseed) plantings were 384 000 hectares (950,000 acres) in 1990, 17.4 per cent less than in 1989. The average yield was estimated at 1 300 kilograms per hectare (23.2 bushels per acre). The total value of farm production from canola (rapeseed) was estimated at $127.2 million, 20 per cent more than in 1989.

TABLE 17: Area, Yield and Production of Canola (Rapeseed), 1989, 1990

Crop District	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1989	1990	1989	1990	1989	1990
1	68	42	460	1 010	31.6	42.4
2	42	27	430	1 270	18.0	34.2
3	68	53	850	1 490	57.7	79.1
4	34	30	1 040	1 440	35.3	43.1
5	20	23	1 250	1 260	24.9	29.0
6	46	42	1 070	1 330	49.2	55.7
7	76	63	1 040	1 420	78.9	89.5
8	56	54	780	1 240	43.7	67.0
9	21	19	1 160	1 140	24.3	21.7
10	3	3	1 070	970	3.2	2.9
11	15	13	1 030	1 160	15.4	15.1
12	16	15	1 050	1 290	16.8	19.3
PROVINCE	**465**	**384**	**860**	**1 300**	**399.0**	**499.0**

Crop District	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1989	1990	1989	1990	1989	1990
1	167.8	104.2	8.3	17.9	1,395.3	1,869.5
2	103.9	65.6	7.6	23.0	794.0	1,509.4
3	167.6	131.6	15.2	26.5	2,544.9	3,486.2
4	84.0	74.5	18.5	25.5	1,556.2	1,900.3
5	49.0	57.2	22.4	22.4	1,099.0	1,280.4
6	114.5	102.8	19.0	23.9	2,171.1	2,458.0
7	186.7	156.8	18.6	25.1	3,479.2	3,942.4
8	139.4	133.4	13.8	22.2	1,926.2	2,955.3
9	52.0	46.6	20.6	20.5	1,073.1	957.1
10	7.9	6.8	17.7	18.6	140.1	126.4
11	37.7	33.2	18.0	20.0	678.2	665.1
12	39.5	37.3	18.8	22.8	742.7	849.9
PROVINCE	**1,150.0**	**950.0**	**15.3**	**23.2**	**17,600.0**	**22,000.0**

SOURCE: Statistics Canada.

FLAXSEED

In 1990, 422 000 tonnes (16.6 million bushels) were harvested, up 91 per cent from 1989. The increase in 1990 production was the result of a 68 per cent rise in yields and a 14.5 per cent increase in seeded area relative to 1989. Manitoba farmers contributed an estimated 45.1 per cent of Canadian production. The estimated total value of the 1990 crop was $95.0 million, a 30 per cent rise above 1989.

TABLE 18: Area, Yield and Production of Flaxseed, 1989, 1990

	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
Crop District	**1989[R]**	**1990**	**1989[R]**	**1990**	**1989[R]**	**1990**
1	35.6	36.9	460	1 190	16.3	44.0
2	22.1	20.4	420	1 250	9.2	25.6
3	15.9	21.2	740	1 570	11.7	33.2
4	3.4	4.0	1 000	1 380	3.4	5.5
5	7.7	10.3	990	1 220	7.6	12.6
6	18.3	26.3	950	1 280	17.3	33.7
7	57.2	62.6	930	1 350	53.0	84.4
8	68.2	71.3	670	1 340	45.6	95.2
9	23.6	30.5	1 090	1 290	25.8	39.3
10	2.5	7.0	1 080	1 310	2.7	9.2
11	20.6	22.4	1 010	1 160	20.8	26.0
12	7.9	11.1	960	1 200	7.6	13.3
PROVINCE	**283.0**	**324.0**	**780**	**1 300**	**221.0**	**422.0**

	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
Crop District	**1989[R]**	**1990**	**1989[R]**	**1990**	**1989[R]**	**1990**
1	87.9	91.2	7.3	19.0	642.1	1,734.0
2	54.5	50.5	6.6	20.0	361.4	1,009.1
3	39.4	52.3	11.7	25.0	461.4	1,308.5
4	8.5	10.0	15.6	21.8	132.7	217.7
5	19.0	25.4	15.8	19.6	300.2	497.2
6	45.3	65.1	15.0	20.4	681.7	1,326.7
7	141.3	154.7	14.7	21.5	2,079.6	3,323.0
8	169.2	175.4	10.6	21.3	1,797.6	3,729.0
9	58.4	75.4	17.4	20.5	1,017.1	1,547.1
10	6.1	17.2	17.6	21.0	107.6	360.8
11	51.0	55.4	16.1	18.5	820.8	1,022.5
12	19.4	27.4	15.4	19.1	297.8	524.4
PROVINCE	**700.0**	**800.0**	**12.4**	**20.8**	**8,700.0**	**16,600.0**

SOURCE: Statistics Canada

SPECIALTY CROPS

The 1990 production year was much improved over the 1989 and 1988 drought years. As a result, special crop production increased by about a third in Manitoba and in Canada, as a whole. Increases also occurred in the northern U.S. For crops such as buckwheat, canary seed, mustard seed and confectionary sunflower seed, this resulted in much lower open market prices in 1990/91. Dry pea and lentil prices held relatively firm on export demand and still-tight supplies.

Specialty crops, excluding horticultural, forage seed and hay crops, were harvested on approximately 252 000 hectares (622,000 acres) in Manitoba in 1990. This represents approximately 6 per cent of the total area of field crops, excluding hay.

Specialty crops grown in Manitoba include those shown in the summary table 3 and in the historical tables. In addition, there are a number of other specialty crops grown on a limited basis such as triticale, safflower and soybeans. Manitoba also produces such crops as wild rice, and a number of spice or essential oil crops like dill, and occasionally, or on a very limited basis, caraway, coriander and evening primrose. The investigation and adaptation of new and alternate crops and varieties through field trials is conducted on an on-going basis through the Soils and Crops Branch of Manitoba Agriculture in cooperation with producers, industry, the University of Manitoba and Agriculture Canada. Crops tested or observed in 1990 included borage, chick peas, coriander, fenugreek, horseradish, Japanese millet, Jerusalem artichoke, lathyrus, lupins, oilseed radish and quinoa, as well as a number of varieties of other major or specialty crops.

Grain Corn

Grain corn plantings in 1990 were estimated at 32 400 hectares (80,000 acres), down 6 per cent from 1989. The estimated total production of 155 000 tonnes (6.1 million bushels) was up 42 per cent from the 1989 level as a result of improved yields. The total value of production in 1990 was estimated at $17.1 million, 28 per cent more than 1989.

Sunflower Seed

The 1990 sunflower plantings were estimated at 58 700 hectares (145,000 acres), up 26 per cent from 1989. The average yield was estimated at 1 780 kilograms per hectare (1,590 pounds per acre) about 32 per cent higher than in 1989. Total production of sunflower seed was 104 300 tonnes (230 million pounds), a 66 per cent increase over 1989. In 1990, about half of the sunflower plantings were non-oilseed or confectionary varieties. The value of sunflower production was estimated at $24.5 million in 1990, 54 per cent more than in 1989.

Buckwheat

Approximately 24 000 hectares (60,000 acres) of buckwheat were planted in Manitoba in 1990, 19 per cent more than in 1989. The average field-run yield was estimated at 1 090 kilograms per hectare (20 bushels per acre), compared to 720 kilograms per hectare (13.4 bushels per acre) in 1989. The total production was 26 100 tonnes (1.2 million bushels) in 1990, 79 per cent more than in 1989. This represented 55 per cent of the total Canadian crop in 1990. The total value of the Manitoba buckwheat crop in 1990 was estimated at $4.3 million, with the average price to the producer down sharply from 1989.

Canary Seed

The area on which canary seed was produced in 1990 was about 14 200 hectares (35,000 acres) in Manitoba, a 12 per cent decline from 1989. The total production was about 21 300 tonnes (47 million pounds) in 1990 compared to 22 700 tonnes (50 million pounds) in 1989. The value of the crop to Manitoba producers was about $4.5 million in 1990.

Dry Beans

In 1990, approximately 17 000 hectares (42,000 acres) of dry beans were planted in Manitoba. About 12 950 hectares (32,000 acres) were in white navy beans, with most of the remaining area in pinto beans and smaller areas in dark red kidney or black beans. The area in beans was 40 per cent greater than in 1989.

After two years of drought, the yield of beans was greatly improved. The average yield of white navy beans was about 1 345 kilograms per hectare (1,200 pounds per acre), producing a total of 17 419 tonnes. The average price for Manitoba navy beans is estimated at 38.57 cents per kilogram (17.5 cents per pound), giving a total crop value for the year of $6.72 million.

Pinto beans were produced on about 3 359 hectares (8,300 acres) in 1990, with an average yield of about 1 345 kilograms per hectare (1,200 pounds per acre). The average price for pintos was estimated at 40.77 cents per kilogram (18.5 cents per pound) in 1990. This gave a total pinto bean crop of 4 518 tonnes, with a value of $1.84 million.

The remainder of the bean area included dark red kidney beans and black beans. In 1990, about 486 hectares or 1,200 acres, produced dark red kidney beans. Yields were also in the 1 345 kilograms per hectare (1,200 pounds per acre) range and total production of kidney beans was about 654 tonnes. With an average price of about 65.9 cents per kilogram (29.9 cents per pound) the total value was $0.43 million. There were about 202 hectares (500 acres) of black beans which produced approximately 272 tonnes of beans. At an average price of 40.77 cents per kilogram (18.5 cents per pound) the total value was close to $0.11 million in 1990.

The total farm gate value of all beans in Manitoba in 1990 was therefore estimated to be $9.10 million, from a production of 22 860 tonnes.

Dry Peas

The area in dry peas in 1990 was estimated at 40 500 hectares (100,000 acres), compared to 52 600 hectares (130,000 acres) in 1989. The average yield was estimated at 2 010 kilograms per hectare (30 bushels per acre), 34 per cent more than the 1989 yield. Manitoba's total production of 81 600 tonnes (3 million bushels), was up 3 per cent from 1989, and represented 28 per cent of the total pea production in Western Canada. The value of the Manitoba crop was estimated at $14.5 million in 1990, 2 per cent less than in 1989.

Fababeans

In 1990, about 3 200 hectares (8,000 acres) of fababeans were sown in Manitoba. Prices paid were generally in the $155-200 per tonne (7-9c per pound) range again this year, so that the total crop was worth approximately $1.1 million.

Lentils

The area sown to lentils doubled in 1990 to approximately 24 300 hectares (60,000 acres). The average yield was about 1 720 kilograms per hectare (1,533 pounds per acre), compared to 1 233 kilograms per hectare (1,100 pounds per acre) in 1989. As a result of the yield improvements, the total crop nearly tripled from 15 000 tonnes (33 million pounds) in 1989 to 41 700 tonnes (92 million pounds) in 1990. This represented about 19 per cent of the Canadian production in 1990. The value of Manitoba production was about $17.5 million, compared with a 1989 value of $5.9 million. Still-tight supplies from 1988, demand from the Middle East and for seed for the 1991 crop helped to keep prices strong through 1990/91.

Mustard Seed

The area seeded to mustards in 1990 was estimated at 14 200 hectares (35,000 acres), approximately 17 per cent more than in 1989. The area in Manitoba was about 5.6 per cent of the total area in mustard in Western Canada. Most of the provincial production was in yellow mustard but smaller amounts of brown and Oriental mustards are also grown. Yields averaged about 1 250 kilograms per hectare (1,110 pounds per acre), 66 per cent more than in 1989. The value to producers in Manitoba of the 1990 mustard crop was about $4.9 million, 75 per cent more than in 1989.

Wild Rice

The reported harvest of wild rice in Manitoba in 1990 was 498.96 tonnes (1.1 million pounds), 8 per cent less than either the 1989, or the previous five-year average harvest. This production is reported on a producer or green basis at 50-60 per cent moisture. The value to producers of 1990 marketings was estimated at $935,000. Four processing plants in the province cure, parch and then market the wild rice at close to 8 per cent moisture level. Wild rice from Manitoba is virtually all natural lake or river-grown with only one paddy rice farm. There are two major growing areas, one east of Lake Winnipeg in the Whiteshell area and one in the northwest around The Pas and Flin Flon, with a small amount from the Turtle Mountain area.

Fodder Corn

In 1990, 12 100 hectares (30,000 acres) of fodder corn were harvested, as in the previous year. With improved yields, 272 000 tonnes (300,000 tons) of silage were produced, a 20 per cent increase over 1989. Estimated at $5.71 million in 1990, the value of production rose by 0.5 per cent over the 1989 value of $5.68 million, when valued relative to grain corn prices in Manitoba.

Sugar Beets

The sugar beet harvested area was 10 926 hectares (26,998 acres) in 1990, up 4 per cent from 1989. The average yield was 32.17 tonnes per hectare (14.35 tons per acre). Total production was 351 507 tonnes, valued at an estimated $14,060,000. In 1989, the total value of the crop was $14,839,000.

TAME HAY AND PASTURE

In 1990, the area in tame hay was estimated at 668 000 hectares (1,650,000 acres), an increase of 3 per cent from the 1989 estimate. The estimated value of $141.9 million in 1990 was similar to 1989, with the increased yield offset by lower prices.

While estimates of production of wild hay and other crops (wheat, millet) cut for hay are unknown, the area of improved pasture was estimated at 283 000 hectares (700,000 acres) in 1990.

TABLE 19: Area, Yield and Production of Tame Hay, 1989, 1990

Crop District	Harvested Hectares (000)		Yield per Hectare (tonnes)		Production (000 tonnes)	
	1989	1990	1989	1990	1989	1990
1	42	48	1.93	3.94	81	189
2	58	60	1.98	4.92	115	295
3	51	57	2.12	4.40	108	251
4	29	29	3.62	4.79	105	139
5	29	28	3.97	4.46	115	125
6	79	82	3.38	4.59	267	376
7	68	68	4.36	4.24	288	288
8	36	35	3.53	4.54	127	159
9	54	55	5.37	5.33	290	293
10	40	41	4.80	4.59	192	188
11	38	41	5.63	5.22	214	214
12	125	124	5.10	4.57	638	567
PROVINCE	**647**	**668**	**3.93**	**4.62**	**2 540**	**3 084**

Crop District	Harvested Acres (000)		Yield per Acre (tons)		Production (000 tons)	
	1989	1990	1989	1990	1989	1990
1	104	118	0.86	1.76	89	208
2	144	149	0.88	2.18	127	325
3	126	141	0.94	1.96	119	277
4	72	72	1.61	2.13	116	153
5	71	70	1.79	1.97	127	138
6	196	203	1.50	2.04	294	415
7	184	167	1.93	1.90	317	318
8	90	87	1.56	2.01	140	175
9	134	135	2.39	2.39	320	323
10	98	101	2.16	2.05	212	207
11	94	101	2.51	2.34	236	236
12	307	306	2.29	2.04	703	625
PROVINCE	**1,600**	**1,650**	**1.75**	**2.06**	**2,800**	**3,400**

SOURCE: Statistics Canada

TABLE 20: Area of Pasture, 1989, 1990

Crop District	Hectares (000)		Acres (000)	
	1989	1990	1989	1990
1	23	24	58	60
2	30	32	73	80
3	28	27	69	66
4	21	21	53	51
5	21	20	52	49
6	35	32	86	80
7	34	34	83	83
8	17	20	43	50
9	13	14	33	35
10	7	8	18	19
11	15	13	37	32
12	39	38	95	95
Province	**283**	**283**	**700**	**700**

SOURCE: Statistics Canada

TABLE 21: Area of Summerfallow, 1988-1990

Crop District	Hectares			Acres		
	1988	1989	1990	1988	1989	1990
		- 000 -			- 000 -	
1	49	40	36	120	99	90
2	51	50	45	126	123	111
3	85	74	88	213	184	218
4	53	43	42	130	106	103
5	36	20	28	89	50	70
6	45	39	40	112	96	100
7	35	29	23	86	72	57
8	23	14	11	57	34	26
9	23	20	15	56	50	38
10	13	11	11	33	27	27
11	18	15	15	45	38	37
12	34	29	30	83	71	73
PROVINCE	**465**	**384**	**384**	**1,150**	**950**	**950**

SOURCE: Statistics Canada.

POTATOES

The area of potatoes harvested in 1990 was estimated at 19 020 hectares (47,000 acres) with the following distribution: processing - 79 per cent; fresh market - 11 per cent; and seed - 10 per cent.

In most areas, there were good spring planting conditions with adequate moisture. By the end of July, dry conditions in the southern areas greatly reduced yields and caused harvesting problems. Conversely, average to above average moisture in Portage la Prairie, MacGregor and Carberry resulted in average to surplus crops in these regions. The irrigated area of processed potatoes continued to increase. Excessively warm harvest conditions caused some disease problems in the processed crop going into storage and resulted in a higher "grade-out" than normal. In total, anticipated contracted processed volumes were achieved.

Estimated net production and value:

	Net Production		Value
	('000 cwt)	(tonnes)	($000)
Processing	5,524	250 569	33,144
Fresh market	770	34 927	7,700
Seed	718	32 568	7,180
	7,012	**318 064**	**48,024**

VEGETABLES

Crop loss or damage from late spring frosts and snow was virtually nil. The month of June was exceptionally wet, but the moisture was needed. The heavy production months of July and August had below normal rainfall making irrigation necessary. Good fall weather allowed the root crop harvest to proceed without serious setbacks or losses.

The Pest Management Program played a vital role in minimizing insect and disease losses throughout the growing season. As a result, the quality of virtually all commodities was good to very good. Generally, markets were strong with prices being average to above average.

TABLE 22: Area, Production and Value of Fresh Vegetables, 1990

	Planted Area (hectares)	Harvested Area (hectares)	Average Yield (kg/ha)	Total Production (tonnes)	Average Price ($/kg)	Total Value ($000)
Asparagus	32.4	32.4	2 612	84	2.45	207
Beans, Snap	40.5	34.4	3 699	127	1.23	157
Beets	12.1	12.1	17 597	214	0.44	94
Broccoli	80.9	62.7	9 303	584	0.88	515
Cabbage	133.5	129.5	35 643	4 616	0.20	916
Carrots	170.0	170.0	37 885	6 441	0.37	2,413
Cauliflower	165.9	149.7	10 088	1 510	0.79	1,200
Celery	40.5	40.5	33 626	1 361	0.44	600
Corn, Sweet	267.0	267.0	7 846	2 096	0.40	832
Cucumbers	46.5	46.5	8 967	417	0.66	276
Garlic, Leeks, & Allianceous	4.0	4.0	—	—	—	4
Lettuce	76.9	56.7	9 527	540	0.62	333
Onions	180.0	180.0	24 771	4 459	0.254	1,132
Parsnips	32.4	32.4	15 356	497	0.99	493
Peas, Sweet	66.8	56.7	897	51	2.20	112
Peppers	18.2	18.2	12 105	220	0.60	131
Radish	16.2	10.1	5 044	51	0.77	40
Rutabagas & Turnips	52.6	52.6	20 512	1 080	0.37	404
Spinach	14.2	14.2	1 681	24	2.66	63
Squash & Pumpkins	24.3	24.3	6 725	163	0.44	72
Tomatoes	12.1	12.1	13 450	163	0.88	144
Other Crops	15.0	12.1	—	—	—	477
Processing	56.7	56.7	—	—	—	140
TOTAL	**1 558.9**	**1 475.0**	**—**	**—**	**—**	**10,755**

	Planted Area (acres)	Harvested Area (acres)	Average Yield (lb/acre)	Total Production (tons)	Average Price ($/lb)	Total Value ($000)
Asparagus	80	80	2,330	186	1.11	207
Beans, Snap	100	85	3,300	281	0.56	157
Beets	30	30	15,700	471	0.20	94
Broccoli	200	155	8,300	1,287	0.40	515
Cabbage	330	320	31,800	10,176	0.09	916
Carrots	420	420	33,800	14,200	0.17	2,413
Cauliflower	410	370	9,000	3,330	0.36	1,200
Celery	100	100	30,000	3,000	0.20	600
Corn, Sweet	660	660	7,000	4,620	0.18	832
Cucumbers	115	115	8,000	920	0.30	276
Garlic, Leeks, & Allianceous	10	10	—	—	—	4
Lettuce	190	140	8,500	1,190	0.28	333
Onions	445	445	22,100	9,840	0.115	1,132
Parsnips	80	80	13,700	1,096	0.45	493
Peas, Sweet	165	140	800	112	1.00	112
Peppers	45	45	10,800	486	0.27	131
Radish	40	25	4,500	113	0.35	40
Rutabagas & Turnips	130	130	18,300	2,380	0.17	404
Spinach	35	35	1,500	53	1.20	63
Squash & Pumpkins	60	60	6,000	360	0.20	72
Tomatoes	30	30	12,000	360	0.40	144
Other Crops	37	30	—	—	—	477
Processing	140	140	—	—	—	140
TOTAL	**3,852**	**3,645**	**—**	**—**	**—**	**10,755**

SOURCE: Manitoba Agriculture, Statistics Canada.

ORNAMENTAL CROPS & FRUIT

Strawberries

There were 235 hectares (580 acres) planted to strawberries in 1990. A large area had to be replanted in the spring as a result of severe winter kill, which reduced some producers' yields by as much as 90 per cent. On average, yields were close to 2 800 kg/ha (2,500 lb/ac), about half the expected normal level. Although sales through outlets such as farmers' markets, restaurants and market gardens are increasing, about 90 per cent of strawberry sales were U-pick. Prices were in the $2.20-2.85/kg ($1.00-1.30/lb) range. The total value of the 1990 strawberry crop was estimated at $1.7 million.

Raspberries

The area used for commercial raspberry production in 1990 was 45 hectares (110 acres). This was similar to the 1989 area as abandoned orchards in some areas were offset by expanded production in others. The percentage of raspberry production for processing into juice increased in 1990. Several growers closed their U-pick operations due to fungal diseases, which affected the crop. Hail also reduced some crops. As a result, the average yield was about 1 700 kg/ha (1,500 lb/ac). Prices received by U-pick operations, at $2.20-2.90/kg ($1.00-1.30/lb) were slightly higher than in 1989, while picked raspberries were priced at $2.20-3.30/kg ($1.00-1.50/lb). The 1990 raspberry crop was valued at almost $200,000.

Saskatoons

The area planted to Saskatoons increased from 6 hectares (15 acres) in 1989 to 16 hectares (40 acres) in 1990, of which 3 hectares (7 acres) were bearing fruit. High humidity reduced the 1990 yield which averaged 1 700 kg/ha (1,500 lb/ac). Prices ranged from $4.40/kg ($2.00/lb) for U-pick to $5.50-6.60/kg ($2.50-3.00/lb) picked, unchanged from 1989. The estimated value of the Saskatoon crop in 1990 was $25,000.

Apples

There were about 6 hectares (15 acres) of apple trees in 1990, unchanged from a year earlier. Yields were average to above average, despite dry conditions in the Morden-Winkler area and damage by fire blight. Yields ranged from 1 100-2 000 kg/ha (1,000-1,800 lb/ac), averaging about 1 300 kg/ha (1,200 lb/ac), while prices were unchanged at $0.55-1.10/kg ($0.25-0.50/lb). The apple crop was valued at $7,000 in 1990.

Greenhouse Production

Sales of greenhouse products continued to expand in 1990, with growers reporting increases of 0-30 per cent over 1989. The recession affected some producers of Christmas plants and flowers, but not others. Prices remained relatively stable. The wholesale price of bedding plant flats in 1989 was $8.35-9.35/flat, while in 1990 prices were in the $8.40-9.00/flat range. A small percentage of product was exported to the U.S. The total value of greenhouse production in 1990 was estimated at $9.5 million.

Mushrooms

Manitoba's mushroom sales totalled 1.8 million kilograms (4 million pounds) in 1990, an average of 35 000 kilograms (76,000 pounds) per week. About 14 per cent of sales were to out-of-province buyers. Manitoba produced 5.6 per cent of the national mushroom crop. The wholesale price of mushrooms averaged $3.70/kg ($1.69/lb) in 1990 resulting in total sales of almost $7 million for the year.

Nursery Sod

Demand for sod was steady in 1990 and average field prices remained at $0.50/$m^2$. Total area under sod in 1990 was close to 1 400 hectares (3,500 acres) from which about 485 hectares (1,200 acres) of sod was harvested during the year. Production was valued at $2.6 million in 1990.

Nursery Stock

The dry season in 1989 reduced the vigour of nursery stock destined for winter storage, resulting in some stock loss over winter 1989-90. However, production and sales continued to increase. Up to 10 per cent of total nursery stock sales were imported from Europe and the United States, while about 5 per cent of stock was sold to U.S. buyers. The estimated total area of outdoor plantings remained steady at 710 hectares (1,750 acres) in 1990, while the net value of 1990 sales (less resales) was up by about 15 per cent to $4.5 million.

TABLE 23: Value of Production of Vegetables, Ornamental Crops & Fruit

Total Estimated Value of 1990 Production:

	($000)
Potatoes	$48,024
Commercial Vegetables	10,755
Commercial Fruits	1,932
Environmentally Controlled Production (Greenhouse and Mushrooms)	16,500
Nursery Products and Sod	7,100
TOTAL	**$84,311**

SOURCE: Manitoba Agriculture, Statistics Canada.

SEED PRODUCTION

Forage Seeds: Total production of all forage seeds, including foreign and private varieties decreased sharply from 12 150 000 kilograms (26,785,000 pounds) in 1989 to 7 575 000 kilograms (16,700,000 pounds) in 1990. The total farm gate value decreased from $11,254,500 to $8,210,600.

The production of all forage seed crops was significantly lower in 1990. In response to low prices in 1988 and 1989, the total area harvested in 1990 declined by about 20 per cent. This, combined with generally dry growing conditions, reduced overall production to 62 per cent of the 1989 level.

The price received by producers for all of the grass crops continued the decline that started in 1988. Conversely, alfalfa and Birdsfoot Trefoil prices increased significantly. In total, the farm gate value of all forage seed crops in 1990 was 73 per cent of the 1989 value.

The following table indicates the production and average farm gate price for a combination of certified and common seed.

TABLE 24: Production and Value of Forage Seeds, 1990

	Production		Price per		Farm
	kilograms (000)	pounds (000)	kilogram $	pound $	Value ($000)
Alfalfa	2 500	16,700	2.00	0.91	5,000,000
Birdsfoot Trefoil	270	595	2.65	1.20	715,500
Bromegrass	100	221	0.53	0.24	53,000
Creeping Red Fescue	25	55	0.55	0.25	13,750
Crested Wheatgrass	40	88	0.55	0.25	22,000
Kentucky Bluegrass	60	132	0.66	0.30	39,600
Meadow Fescue	25	55	0.55	0.25	13,750
Reed Canary Grass	25	55	3.00	1.36	75,000
Red Clover (double cut)	30	66	1.10	0.50	33,000
Red Clover (single cut)	100	221	0.53	0.24	53,000
Sweet Clover	400	882	0.18	0.08	72,000
Timothy	4 000	8,818	0.53	0.24	2,120,000
TOTAL	**7 575**	**16,700**			**8,210,600**

SOURCE: Manitoba Agriculture.

Pedigreed Seed: Because of its importance in Manitoba agriculture, the area seeded to this type of crop is given in detail. These figures are included in the estimates of total production of cereals, grasses and other crops. A portion of this seed is used in the province and part is exported. These are not included in the records of commercial marketings through elevators, but are considered in the total value of crop production.

Included in above total are 5 830 hectares (14,400 acres) of non-registered forage crop varieties grown for export.

TABLE 25: Area of Foundation, Registered and Certified Seed Production, 1988-1990

Kind of Crop	Hectares 1988	1989	1990
Wheat - Hard Red Spring	47 081	52 688	52 968
- Prairie Spring	2 270	1 638	—
- Soft White Spring	40	—	—
- Durum	5 469	6 901	5 647
- Utility	1 461	1 236	-
- Winter	45	123	85
Oats	3 061	3 215	1 981
Barley - 2-Row	1 722	1 264	699
- 6-Row	13 771	18 092	15142
Rye - Fall	694	942	438
- Spring	107	51	42
Triticale	22	31	192
Flaxseed	9 443	11 245	12736
Peas - Field	11 275	8 529	6 652
Beans - Faba	1 418	150	191
- Soybeans	271	80	—
- Field	65	259	200
Buckwheat	227	280	334
Canola (Rapeseed) - Argentine type	3 098	3 689	3 366
- Polish type	144	174	182
Alfalfa	7 353	8 434	8 225
Bromegrass	265	327	219
Kentucky Bluegrass	164	140	69
Meadow Fescue	249	170	26
Sweet Clover - Yellow Blossom	583	270	167
Timothy	16 319	16 318	13319
Red Clover - Single- and Double-cut	65	87	6
Birdsfoot Trefoil	2 220	2 011	1 718
Mustard (Yellow & Brown)	1	280	822
Radish	—	—	—
Lentils	809	859	775
Canary Grass	71	212	389
Miscellaneous Grass Crops	204	256	410
TOTAL	**129 989**	**139 949**	**127 001**

TABLE 25: Continued

Kind of Crop	Acres 1988	1989	1990
Wheat - Hard Red Spring	116,340	130,195	130,884
- Prairie Spring	5,610	4,047	—
- Soft White Spring	100	—	—
- Durum	13,515	17,053	13,954
- Utility	3,610	3,054	—
- Winter	110	305	211
Oats	7,565	7,945	4,896
Barley - 2-Row	4,255	3,123	1,726
- 6-Row	34,030	44,706	37,417
Rye - Fall	1,715	2,327	1,081
- Spring	265	126	104
Triticale	55	76	475
Flaxseed	23,335	27,786	31,471
Peas - Field	27,862	21,076	16,437
Beans - Faba	3,505	371	473
- Soybeans	670	197	—
- Field	160	639	495
Buckwheat	560	692	826
Canola (Rapeseed) - Argentine type	7,655	9,116	8,316
- Polish type	355	430	449
Alfalfa	18,170	20,840	20,325
Bromegrass	655	807	540
Kentucky Bluegrass	405	345	170
Meadow Fescue	615	420	65
Sweet Clover - Yellow Blossom	1,440	667	413
Timothy	40,325	40,322	32,912
Red Clover - Single- and Double-cut	160	215	15
Birdsfoot Trefoil	5,485	4,970	4,244
Mustard (Yellow & Brown)	3	691	2,032
Radish	—	—	—
Lentils	2,000	2,123	1,916
Canary Grass	175	525	961
Miscellaneous Grass Crops	505	633	1,014
TOTAL	**321,210**	**345,822**	**313,822**

TABLE 26: Certified Potato Production, 1990

	Number of Growers	Hectares Inspected	Hectares Passed Inspection 1990	Production Graded Stock	(tonnes) 1989[R]
Russet Burbank	11	1 357.3	1 357.3	23 485	20 277
Norland	8	154.2	154.2	1 566	1 675
Norchip	4	175.7	175.7	1 578	1 646
Red Pontiac	4	66.6	66.6	874	982
Viking	1	7.0	7.0	122	0
Carlton	2	2.6	2.6	48	32
Shepody	6	148.1	148.1	3 113	2 661
Conestoga	3	50.9	50.9	508	233
Yukon Gold	4	29.4	29.4	423	613
Monona	3	40.8	40.8	706	393
Niska	1	0.0	0.0	2	0
Russet Norkotah	2	3.6	3.6	47	53
Sangre	0	0.0	0.0	0	78
Saginaw Gold	2	2.8	2.8	85	4
All Varieties	**12**	**2 039.0**	**2 039.0**	**32 557**	**28 647**

	Number of Growers	Acres Inspected	Acres Passed Inspection 1990	Production Graded Stock	(tons) 1989[R]
Russet Burbank	11	3,353.8	3,353.8	25,880	22,351
Norland	8	380.9	380.9	1,726	1,846
Norchip	4	434.3	434.3	1,739	1,815
Red Pontiac	4	164.7	164.7	963	1,083
Viking	1	17.3	17.3	134	0
Carlton	2	6.5	6.5	53	35
Shepody	6	365.8	365.8	3,431	2,933
Conestoga	3	125.7	125.7	560	257
Yukon Gold	4	72.6	72.6	466	676
Monona	3	100.9	100.9	778	433
Niska	1	0.0	0.0	2	0
Russet Norkotah	2	8.8	8.8	52	59
Sangre	0	0.0	0.0	0	86
Saginaw Gold	2	7.0	7.0	94	4
All Varieties	**12**	**5,038.3**	**5,038.3**	**35,878**	**31,578**

R - Revised.

SOURCE: Agriculture Canada

MARKETING OF MAJOR CROPS

TABLE 27: Farm Supply and Disposition of Major Crops, 1989-90

1989-90	Durum Wheat	All Wheat	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				thousand tonnes				
SUPPLY								
Opening Stocks - Aug 1	5.0	50.0	30.0	95.0	5.0	15.0	40.0	235.0
Production	234.0	4 063.1	339.0	1 546.0	198.0	221.0	399.0	6 766.1
TOTAL SUPPLY	**239.0**	**4 113.1**	**369.0**	**1 641.0**	**203.0**	**236.0**	**439.0**	**7 001.1**
DISPOSITION								
Marketings	211.8	3 760.4	106.7	787.0	123.3	186.1	366.7	5 330.2
Seed Requirements	16.0	228.2	17.9	59.7	7.7	15.0	2.9	331.4
Feed, Waste & Dockage	11.2	84.5	194.4	664.3	52.0	29.9	54.4	1 079.5
Carryover, July 31	0.0	40.0	50.0	130.0	20.0	5.0	15.0	260.0
TOTAL DISPOSITION	**239.0**	**4 113.1**	**369.0**	**1 641.0**	**203.0**	**236.0**	**439.0**	**7 001.1**
				thousand bushels				
SUPPLY								
Opening Stocks - Aug 1	184	1,837	1,945	4,363	197	591	1,764	10,697
Production	8,598	149,295	21,981	71,006	7,795	8,700	17,593	276,370
TOTAL SUPPLY	**8,782**	**151,131**	**23,927**	**75,369**	**7,992**	**9,291**	**19,356**	**287,066**
DISPOSITION								
Marketings	7,782	138,172	6,917	36,144	4,856	7,328	16,169	209,585
Seed Requirements	588	8,385	1,161	2,742	303	591	128	13,309
Feed, Waste & Dockage	412	3,105	12,607	30,512	2,045	1,175	2,398	51,844
Carryover, July 31	0	1,470	3,242	5,971	787	197	661	12,328
TOTAL DISPOSITION	**8,782**	**151,131**	**23,927**	**75,369**	**7,992**	**9,291**	**19,356**	**287,066**

SOURCE: Statistics Canada.

TABLE 28: Producer Marketings, Crop Year 1989/90

	Bread Wheat	Durum Wheat	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)	TOTAL
	'000 tonnes								
1989									
Aug.	436.3	27.6	463.9	9.3	56.4	39.0	16.7	26.0	611.3
Sept	286.9	15.8	302.7	7.7	57.5	9.8	59.0	58.8	495.5
Oct.	423.7	30.4	454.1	6.2	47.3	5.2	21.6	29.0	563.5
Nov.	228.8	36.5	265.3	9.4	89.5	6.3	9.3	39.8	419.7
Dec.	63.7	5.5	69.2	8.8	39.8	3.3	5.4	16.9	143.3
1990									
Jan.	332.7	6.4	339.1	13.9	64.6	5.8	15.1	25.7	464.2
Feb.	170.4	4.0	174.4	6.7	45.2	4.8	16.2	19.4	266.7
March	194.6	21.1	215.6	6.6	51.9	5.7	8.8	36.9	325.6
April	404.0	30.8	434.8	11.5	54.0	6.9	7.5	35.6	550.3
May	447.9	12.7	460.6	5.5	47.3	7.4	7.6	25.0	553.5
June	329.2	11.4	340.6	6.2	90.4	13.0	8.6	20.1	479.0
July	230.5	9.6	240.1	14.8	143.0	16.0	10.3	33.5	457.8
TOTAL	**3 548.6**	**211.8**	**3 760.4**	**106.7**	**787.0**	**123.3**	**186.1**	**366.7**	**5 330.2**

	Bread Wheat	Durum Wheat	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)	TOTAL
	'000 bushels								
1989									
Aug.	16,030	1,015	17,044	602	2,592	1,537	656	1,146	23,577
Sept	10,542	579	11,122	501	2,643	384	2,323	2,592	19,565
Oct.	15,568	1,116	16,684	404	2,175	205	850	1,279	21,597
Nov.	8,407	1,343	9,749	612	4,109	249	367	1,753	16,840
Dec.	2,341	200	2,541	569	1,826	132	214	743	6,025
1990									
Jan.	12,225	235	12,460	904	2,967	228	594	1,132	18,285
Feb.	6,259	148	6,408	435	2,075	190	636	856	10,600
March	7,149	774	7,922	427	2,384	224	347	1,628	12,934
April	14,846	1,130	15,976	744	2,480	272	296	1,570	21,339
May	16,458	468	16,925	354	2,174	291	300	1,103	21,148
June	12,096	420	12,516	403	4,151	513	338	887	18,809
July	8,471	353	8,824	962	6,568	629	405	1,479	18,867
TOTAL	**130,390**	**7,782**	**138,172**	**6,917**	**36,144**	**4,856**	**7,328**	**16,169**	**209,585**

TABLE 29: Permit Holders, Quota Areas, 1985/86 to 1989/90

	Permit Books	Quota Areas	
		Hectares	Acres
		thousands	
1985/86	24,650	6 064	14,985
1986/87	23,935	5 956	14,718
1987/88	25,114	6 054	14,959
1988/89	24,410	5 849	14,452
1989/90	23,728	5 852	14,460

SOURCE: Canadian Wheat Board.

TABLE 30: Average Protein Content of Spring Wheat, 1989, 1990

Per cent Protein in Wheat No. 1 C.W.R.S.
(13.5% moisture content basis)

	1989		1990	
Crop District	**Mean**	**Range**	**Mean**	**Range**
1	15.5	10.7 -19.2	13.6	10.0 - 16.9
2	15.4	12.0 - 18.5	13.7	9.7 - 16.3
3	15.3	10.6 - 18.8	13.7	10.5 - 17.0
4	14.6	10.5 - 18.4	13.2	11.4 - 16.1
5	14.1	10.3 - 17.6	12.9	10.2 - 15.7
6	14.3	11.0 - 17.3	13.4	11.0 - 15.6
7	14.6	10.8 - 17.7	13.6	10.1 - 16.9
8	15.2	11.4 - 18.3	14.2	10.1 - 17.3
9	14.2	11.3 - 16.3	13.3	10.1 - 16.6
10	—	—	—	—
11	14.0	10.9 - 16.2	13.1	10.5 - 16.0
12	14.2	11.0 - 16.2	13.4	10.0 - 15.8
PROVINCE	**14.8**	**10.3 - 19.2**	**13.6**	**9.7 - 17.3**

SOURCE: Agriculture Canada (C.G.C.). Grain Research Laboratory.

TABLE 31: Canadian Wheat Board Monthly Average Cash Grain Prices, Basis In-Store Lower St. Lawrence, 1989-1990

A. 1989/90 Wheat Crop Prices

- Dollars per Tonne at St. Lawrence -
- Wheat Board Quotations -

	1989					1990	Initial Payment
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	1989-90
1 C.W. Red Spring 13.5%	229.60	222.35	223.68	223.90	224.97	225.08	167.21
2 C.W. Red Spring 13.5%	224.00	216.75	218.08	218.30	219.37	219.48	160.21
3 C.W. Red Spring	214.00	206.75	208.08	208.30	209.37	209.48	145.21
No. 1 Canada Utility	210.00	202.75	204.08	204.30	205.37	205.48	149.21
No. 2 Canada Utility	202.00	194.75	196.08	196.30	197.37	197.48	132.21
1 C.W. Amber Durum	229.48	227.27	227.86	225.34	219.62	219.10	150.00
2 C.W. Amber Durum	224.48	222.27	222.86	220.34	214.62	214.10	147.00
3 C.W. Amber Durum	219.48	217.27	217.86	215.34	209.62	209.10	143.00

	1990						
	Feb.	March	April	May	June	July	Average
1 C.W. Red Spring 13.5%	220.62	211.70	207.85	200.17	192.06	174.74	213.06
2 C.W. Red Spring 13.5%	215.02	206.10	202.25	194.57	186.46	169.14	207.46
3 C.W. Red Spring	205.02	196.10	192.25	184.57	176.46	159.14	197.46
No. 1 Canada Utility	201.02	192.10	188.25	180.57	172.46	155.14	193.46
No. 2 Canada Utility	193.02	184.10	180.25	172.57	164.46	147.14	185.46
1 C.W. Amber Durum	222.24	213.75	214.23	217.90	207.03	193.37	218.10
2 C.W. Amber Durum	217.24	208.75	209.23	212.90	202.03	188.37	213.10
3 C.W. Amber Durum	212.24	203.75	204.23	207.90	197.03	183.37	208.10

B. 1989/90 Oat Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations -

	1989					1990
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 C.W.	106.52	105.81	111.22	110.99	113.88	106.42
2 C.W.	106.52	105.81	111.22	110.99	113.88	106.42
3 C.W.	106.07	102.36	107.18	106.99	109.88	103.06
4 C.W.	101.07	97.36	102.18	101.99	104.88	98.06
Mixed Grain C.W.	96.07	92.36	97.18	96.99	99.88	93.06

	1990						
	Feb.	March	April	May	June	July	Average
1 C.W.	108.85	108.70	112.27	114.26	105.55	87.52	107.67
2 C.W.	108.85	108.70	112.27	114.26	105.55	87.52	107.67
3 C.W.	105.85	105.70	109.47	112.80	104.55	86.52	105.04
4 C.W.	100.85	100.70	104.47	107.80	99.55	81.52	100.04
Mixed Grain C.W.	95.85	95.70	99.47	102.80	94.55	76.52	95.04

C. 1989/90 Barley Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations -

	1989					1990	C.W.B. Initial Payment
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	1989-90
1 C.W.	105.09	102.41	112.72	110.95	110.14	110.37	112.00
2 C.W.	104.00	101.41	111.72	109.95	109.14	109.37	109.00
Mixed Grain C.W.	95.09	92.41	102.72	100.95	100.14	100.37	87.45

	1990						
	Feb.	March	April	May	June	July	Average
1 C.W.	109.03	107.29	107.02	111.90	111.05	111.32	109.11
2 C.W.	108.03	106.29	106.02	110.90	109.97	110.33	108.09
Mixed Grain C.W.	99.03	97.29	97.02	101.90	101.05	101.32	99.11

TABLE 31: Continued

D. 1989/90 Canola (Rapeseed) Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations, -

	1989					1990
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 Canada	272.13	279.33	276.04	285.58	285.20	281.92
2 Canada	259.13	266.33	276.04	272.58	272.20	281.92

	1990						
	Feb.	March	April	May	June	July	Average
1 Canada	283.64	295.04	306.41	304.76	287.84	289.46	287.28
2 Canada	270.64	282.04	293.41	291.76	274.84	276.46	276.45

E. 1989/90 Flaxseed Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations -

	1989					1990
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 Canada Western	333.33	369.16	359.51	343.40	346.43	356.20
2 Canada Western	331.33	367.15	357.51	341.40	344.43	354.20
3 Canada Western	298.33	334.15	324.51	308.40	311.43	321.20

	1990						
	Feb.	March	April	May	June	July	Average
1 Canada Western	404.91	430.05	400.72	417.93	387.83	337.68	373.93
2 Canada Western	402.91	428.05	398.72	415.93	385.83	335.68	371.93
3 Canada Western	369.91	395.05	365.72	382.93	352.83	302.68	338.93

F. 1989/90 Rye Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations -

	1989					1990
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 Canada Western	109.52	113.94	117.86	116.35	114.46	114.51
2 Canada Western	107.52	111.94	115.86	114.35	112.46	112.51
3 Canada Western	79.52	83.94	87.86	86.35	84.46	84.51

	1990						
	Feb.	March	April	May	June	July	Average
1 Canada Western	113.56	112.86	108.02	112.35	106.78	97.23	111.45
2 Canada Western	111.56	110.86	106.02	110.35	104.78	95.23	109.45
3 Canada Western	83.56	82.86	78.02	82.35	76.78	67.23	81.45

TABLE 32: Grain Storage Capacity, August 1, 1989 - 1990

Kind of Elevator	All Licensed Elevators 1989 Number	1989 Capacity (000 tonnes)	1990 Number	1990 Capacity (000 tonnes)
Terminal	3	197.1	1	140.0
Process Elevators	9	133.2	8	109.4
Primary	272	1 071.9	264	1 110.1
TOTAL - Licensed Elevators	**284**	**1 402.2**	**273**	**1 359.5**
		(000 bushels)		(000 bushels)
Terminal	3	6,915.0	1	4,915.0
Process Elevators	9	4,675.0	8	3,840.0
Primary	272	37,615.0	264	38,955.0
TOTAL - Licensed Elevators	**284**	**49,205.0**	**273**	**47,710.0**

SOURCE: Canadian Grain Commission

TABLE 33: Grain Stored in Country Elevators at July 31

Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
			tonnes			
1976-77	225 400	43 300	225 400	37 500	9 700	48 900
1977-78	480 900	75 700	129 700	106 800	29 200	37 800
1978-79	497 400	58 600	96 900	84 900	70 600	32 300
1979-80	327 900	7 800	45 800	130 600	97 500	38 500
1980-81	266 200	14 900	218 300	54 500	61 500	21 900
1981-82	231 700	14 700	94 600	35 300	40 200	25 800
1982-83	420 400	15 800	138 900	86 900	24 900	52 800
1983-84	374 000	9 500	57 600	20 800	4 300	43 500
1984-85	82 400	14 800	115 300	20 400	43 900	46 300
1985-86	396 100	26 700	130 000	34 900	44 700	21 500
1986-87	701 300	14 900	64 600	60 400	16 000	17 600
1987-88	290 900	13 500	118 400	40 600	19 100	25 900
1988-89	154 800	10 900	182 400	23 500	43 600	20 000
1989-90	264 900	16 700	151 200	3 900	27 400	3 900
			- million bushels -			
Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
1976-77	8.3	2.8	10.4	1.5	0.4	1.9
1977-78	17.7	4.9	6.0	4.2	1.3	1.5
1978-79	18.3	3.8	4.4	3.3	3.1	1.3
1979-80	12.0	0.5	2.1	5.1	4.3	1.5
1980-81	9.8	1.0	10.0	2.1	2.7	0.9
1981-82	8.5	1.0	4.3	1.4	1.8	1.0
1982-83	15.4	1.0	6.4	3.4	1.1	2.1
1983-84	13.7	0.6	2.6	0.8	0.2	1.7
1984-85	3.0	1.0	5.3	0.8	1.9	1.8
1985-86	14.6	1.7	6.0	1.4	2.0	0.9
1986-87	25.8	1.0	3.0	2.4	0.7	0.7
1987-88	10.7	0.9	5.4	1.6	0.8	1.0
1988-89	5.7	0.7	8.4	0.9	1.9	0.8
1989-90	9.7	1.1	6.9	0.2	1.2	0.2

SOURCE: Statistics Canada, Canadian Grain Commission

LIVESTOCK PRODUCTION

CATTLE

Production Value

During the past year, the production value of Manitoba cattle increased by $88.0 million from $245.0 million in 1989 to $333.0 million in 1990. The estimated average value per animal increased from $634 to $762 while production increased from 386,000 head to 437,000 head. The sale of heavier-weight animals and higher cattle prices were the main reasons for the higher value in 1990.

Marketings

Including estimated sales to Alberta and Saskatchewan, net commercial marketings of Manitoba-origin cattle and calves increased by 24,770 head from 1989, to total 403,100 in the current year. Marketings of slaughter cattle to Manitoba packers decreased by 14,667 to 73,767 head whereas marketings of slaughter calves decreased by 556 to 1,337 head. Estimated shipments of Manitoba-origin feeder cattle and calves to the U.S. and Eastern Canada were 139,300 head, an increase of 47,000 head from a year earlier. Export sales of Manitoba slaughter cattle and calves to Ontario, Quebec, Saskatchewan, Alberta and the U.S., increased from 119,700 head in 1989 to 128,700 in 1990. Estimated 1990 marketings of Manitoba feeder cattle and calves to Alberta and Saskatchewan were about 60,000 head, down by 16,000 head from 1989.

TABLE 34: Slaughter Cattle Sold by Month: Manitoba Origin, 1990

Month	Slaughter Cattle	Slaughter Calves	TOTAL (excluding exports)
January	7,362	135	7,497
February	7,112	103	7,215
March	8,495	137	8,632
April	7,122	72	7,194
May	8,792	102	8,894
June	9,567	104	9,671
July	7,253	64	7,317
August	6,119	68	6,187
September	6,626	156	6,782
October	5,953	151	6,104
November	5,507	115	5,622
December	6,022	139	6,161
YEAR	**85,930**	**1,345**	**87,276**

SOURCE: Agriculture Canada.

Cattle Slaughtered in Manitoba

Of the total 90,958 cattle and 1,352 calves slaughtered in Manitoba during 1990, more than 18 per cent came from Saskatchewan. Of the total cattle slaughtered, 82 per cent were sold directly to packing plants on a rail-grade basis and 18 per cent were marketed through public stockyards and auction markets. In addition to the 87,276 Manitoba-produced cattle and calves slaughtered in Canada, about 116,500 slaughter cattle and calves were exported to the United States.

TABLE 35: Beef Carcasses Graded in Federally & Provincially Inspected Packing Plants, 1989, 1990

	1989		1990	
	Number	%	Number	%
Grade:				
A1	72,269	58.4	55,479	61.0
A2	16,538	13.4	9,641	10.6
A3	2,058	1.7	1,015	1.1
A4	354	0.3	119	0.1
B1	2,500	2.0	2,065	2.3
B2	1,228	1.0	658	0.7
B3	1,113	0.9	655	0.7
C1	797	0.6	465	0.5
C2	251	0.2	120	0.1
D1	4,642	3.7	3,321	3.7
D2	3,072	2.5	2,740	3.0
D3	3,249	2.6	1,763	1.9
D4	479	0.4	308	0.3
E	269	0.2	176	0.2
Graded	**108,819**	**87.9**	**78,525**	**86.3**
Ungraded	15,034	12.1	12,433	13.7
TOTAL	**123,853**	**100.0**	**90,958**	**100.0**

SOURCE: Agriculture Canada.

Replacement Cattle Marketed in Manitoba

In 1990, 347,900 feeder cattle marketings were recorded by Manitoba public stockyards and auction markets. This was an increase of 0.5 per cent from the previous year. Almost 251,000 feeder cattle and calves were sold through Manitoba's nine major stockyards and auction markets, while 96,900 replacement cattle were marketed through the eight smaller markets in the province. More than 58,500 feeder cattle and calves were shipped to eastern markets in 1990, a decrease of 23.4 per cent from 1989. Manitoba exported 102,200 feeders, of which about 80,800 were Manitoba-origin, to the United States in 1990, up from 15,900 in 1989. It is estimated that about 60,000 Manitoba-produced feeder cattle and calves were purchased by Alberta and Saskatchewan buyers in 1990. This number compares to an estimated 76,000 feeder cattle and calves moving west from Manitoba in 1989, 113,000 in 1988, 90,000 in 1987, 50,000 in 1986 and almost none in 1985 and previous years.

TABLE 36: Cattle Prices, Winnipeg, 1990

	Cents per Kilogram Live	Dollars per 100 Pounds Live
SLAUGHTER CATTLE AND CALVES		
STEERS		
A1,A2 + 450 kg (+ 1,000 lb)	181.50	82.33
A1,A2 -450 kg (-1,000 lb)	179.56	81.45
A3,A4	156.02	70.77
B and C	155.60	70.58
HEIFERS		
A1,A2 + 400 kg (+ 850 lb)	176.94	80.26
A1,A2 -400 kg (-850 lb)	177.01	80.29
A3,A4	149.96	68.02
B and C	149.69	67.90
COWS		
D1,D2	130.18	59.05
D3	126.10	57.20
D4	118.34	53.68
BULLS	167.59	76.02
SLAUGHTER CATTLE AVERAGE	**144.93**	**65.74**
CALVES		
Good Veal	—	—
Good Butcher	—	—
Common All Weights	—	—
SLAUGHTER CALVES AVERAGE	—	—
FEEDERS		
GOOD STEERS		
+ 400 kg (+ 900 lb)	189.46	85.94
350-400 kg (800-900 lb)	196.74	89.24
300-350 kg (700-800 lb)	206.22	93.54
250-300 kg (600-700 lb)	222.40	100.88
Common and Medium + 250 kg (+ 600 lb)	186.79	84.73
GOOD STEER CALVES		
200-250 kg (500-600 lb)	240.74	109.20
150-200 kg (400-500 lb)	256.90	116.53
Under 150 kg (under 400 lb)	261.22	118.49
Common and Medium -250 kg (-600 lb)	209.48	95.02
GOOD HEIFERS		
+ 350 kg (+ 800 lb)	186.49	84.59
300-350 kg (700-800 lb)	191.84	87.02
250-300 kg (600-700 lb)	203.46	92.29
200-250 kg (500-600 lb)	220.50	100.02
Common and Medium + 200 kg (+ 500 lb)	181.59	82.37
GOOD HEIFER CALVES		
150-200 kg (400-500 lb)	234.66	106.44
100-150 kg (300-400 lb)	243.17	110.30
Under 100 kg (under 300 lb)	247.86	112.43
Common and Medium -200 kg (-500 lb)	205.78	93.34
FEEDER COWS	141.29	64.09
FEEDER CATTLE AVERAGE	**208.49**	**94.57**

SOURCE: Agriculture Canada.

Prices

The weighted average price for top grade steers in 1990, at $82.33/cwt, increased by more than 2.5 per cent from 1989, while that of D1,2 cows was up by 7.8 per cent to $59.05/cwt. The weighted average price for feeder calves, 200-250 kilograms (500-600 pounds) was $109.20/cwt. This compares with the weighted average price in 1989 of $106.13/cwt. The weighted average price for feeder steers 350-400 kilograms (800-900 pounds) in 1990 was $89.24/cwt, up by 3.2 per cent from 1989.

TABLE 37: Winnipeg Cattle Prices - Selected Grades

- cents per kilogram -

	A1,2 Steers			D1,2 Cows			Feeder Steers 350-400 kilograms			Feeder Calves 200-250 kilograms		
Month	**5 Yr.**	**1989**	**1990**	**5 Yr.**	**1989**	**1990**	**5 Yr.**	**1989**	**1990**	**5 Yr.**	**1989**	**1990**
January	174.4	176.3	181.7	116.0	114.9	126.4	185.1	190.5	192.1	214.5	224.4	226.3
February	175.4	182.3	183.4	121.1	121.1	133.5	186.7	189.7	189.4	216.4	230.1	226.2
March	174.7	185.0	178.6	123.3	121.3	133.0	185.8	190.8	187.2	216.7	233.1	226.1
April	176.5	176.9	180.7	120.5	117.6	128.7	186.2	187.3	187.9	215.4	228.1	236.3
May	181.4	177.1	181.2	123.9	121.4	131.0	186.6	187.4	189.0	215.9	225.4	233.3
June	177.3	173.1	181.5	125.9	125.2	140.2	184.9	187.2	197.1	211.4	223.5	251.9
July	173.4	175.4	179.3	127.6	130.7	138.1	184.7	190.1	195.4	205.7	221.7	244.4
August	175.7	177.1	182.0	125.6	124.4	135.0	191.5	198.3	205.3	208.7	225.8	242.8
September	177.8	175.3	179.4	124.0	127.1	129.8	195.2	193.7	204.9	224.8	236.5	246.7
October	176.6	176.4	182.3	118.4	118.6	126.7	193.4	193.3	205.3	377.5	238.5	242.9
November	177.7	179.9	185.4	113.9	113.9	119.3	188.0	188.5	199.0	366.8	232.8	239.8
December	177.5	178.1	189.3	117.5	118.6	125.4	190.9	191.8	204.2	370.3	235.4	243.1
YEAR	**177.6**	**177.0**	**181.5**	**121.1**	**120.7**	**130.2**	**189.1**	**190.6**	**196.7**	**220.3**	**234.0**	**240.7**

- dollars per 100 pounds -

	A1,2 Steers			D1,2 Cows			Feeder Steers 800-900 pounds			Feeder Calves 500-600 pounds		
Month	**5 Yr.**	**1989**	**1990**	**5 Yr.**	**1989**	**1990**	**5 Yr.**	**1989**	**1990**	**5 Yr.**	**1989**	**1990**
January	79.10	79.97	82.42	52.60	52.12	57.35	83.95	86.42	87.12	101.09	101.78	102.63
February	79.54	82.71	83.17	54.93	54.92	60.55	84.67	86.07	85.89	102.29	104.37	102.61
March	79.25	83.91	81.02	55.95	55.02	60.34	84.27	86.55	84.92	102.22	105.75	102.54
April	80.06	80.22	81.97	54.65	53.35	58.38	84.45	84.94	85.25	102.20	103.46	107.18
May	82.27	80.34	82.20	56.22	55.06	59.44	84.64	85.00	85.72	102.16	102.25	105.82
June	80.44	78.52	82.33	57.10	56.79	63.60	83.89	84.93	89.42	102.15	101.39	114.26
July	78.64	79.57	81.35	57.87	59.30	62.65	83.78	86.24	88.62	99.23	100.55	110.84
August	79.72	80.31	82.57	56.96	56.45	61.24	86.85	89.95	93.13	101.00	102.42	110.14
September	80.63	79.50	81.36	56.24	57.63	58.89	88.54	87.88	92.94	108.07	107.28	111.90
October	80.09	80.00	82.71	53.68	53.79	57.47	87.72	87.69	93.13	108.22	108.20	110.18
November	80.60	81.59	84.08	51.67	51.68	54.12	85.29	85.51	90.28	104.80	105.59	108.78
December	80.50	80.79	85.86	53.29	53.81	56.88	86.61	86.98	92.63	106.49	106.78	110.26
YEAR	**80.56**	**80.28**	**82.33**	**54.94**	**54.76**	**59.05**	**85.76**	**86.44**	**89.24**	**105.19**	**106.13**	**109.20**

SOURCE: Agriculture Canada

Inventory

There were 1,075,000 head of cattle and calves on Manitoba farms as of July 1, 1990. This was an increase of 0.9 per cent from the 1989 level. The number of beef cows increased by 5,000 head or 1.3 per cent over the year. While replacement heifer numbers remained unchanged, slaughter heifers, steers and calves were up by 5.6 per cent, 2.5 per cent, and 0.8 per cent respectively. The decreased out-movement of calves and lighter feeder cattle in the fall of 1989 contributed to the increase in cattle being kept on feed for longer periods in 1990.

TABLE 38: Estimated Cattle Numbers on Farms, July 1, 1990

Crop District	Bulls	Cows (milk)	Cows (beef)	Heifers Over 1 yr (milk)	Heifers Over 1 yr (beef) (slaughter/ replacement)	Steers Over 1 Year	Calves Under 1 Year	TOTAL
1	1,980	2,210	35,760	680	10,030	6,950	33,970	91,580
2	2,700	4,740	44,470	1,950	13,050	12,040	43,960	122,910
3	2,010	3,960	37,500	1,350	9,730	7,300	35,760	97,610
4	1,480	1,730	24,120	460	5,830	3,730	22,620	59,970
5	670	770	13,500	220	3,350	2,550	12,140	33,200
6	2,910	2,530	58,710	860	12,880	7,990	53,500	139,380
7	2,090	8,610	38,670	4,000	10,970	10,330	38,950	113,620
8	1,970	7,680	27,460	3,240	9,450	11,230	30,090	91,120
9	1,270	18,420	13,770	9,010	5,400	4,620	21,910	74,400
10	620	2,380	10,360	1,060	2,350	1,160	9,930	27,860
11	1,050	6,430	15,750	3,110	5,050	4,090	16,910	52,390
12	3,250	4,540	69,930	2,060	16,910	11,010	63,260	170,960
PROVINCE	**22,000**	**64,000**	**390,000**	**28,000**	**105,000**	**83,000**	**383,000**	**1,075,000**

SOURCE: Statistics Canada.

HOGS

Production

In 1990, Manitoba farmers produced 1,994,000 hogs, a decrease of 8.4 per cent from 1989. An increase in the average value per head more than offset the reduced production volume resulting in a $28 million increase in total value of production above the 1989 value. Hogs produced in Manitoba were valued at an estimated $247 million in 1990.

Marketings

Manitoba producers marketed 241,300 fewer hogs for slaughter in Canada in 1990 than in 1989. Hog marketings in all months were below corresponding levels in 1989. The largest monthly decrease in marketings, 21.4 per cent, occurred in April, 1990. According to Manitoba Pork, Est., 138,485 weanlings and 134,026 mature hogs were exported to the United States in 1990.

TABLE 39: Slaughter Hog Marketings by Month (excluding exports), 1988-1990

	- Animals from Manitoba -		
Month	**1988**	**1989**	**1990**
January	141,527	157,086	138,909
February	131,820	156,793	140,536
March	159,815	186,679	178,109
April	145,236	165,029	129,664
May	132,103	146,388	123,677
June	162,861	178,282	163,315
July	137,621	142,287	116,522
August	134,802	139,313	124,810
September	179,026	190,513	160,740
October	145,251	146,987	127,168
November	145,152	152,412	136,109
December	182,265	163,618	144,537
YEAR	**1,797,479**	**1,925,387**	**1,684,096**

SOURCE: Agriculture Canada.

Quality

The general quality of Manitoba hogs increased in 1990 relative to 1989. The percentage of market hogs indexing 100 or better increased to 90.7 per cent from 82.9 per cent in 1989. The average Manitoba index rose from 105.0 in 1989 to 105.5 in 1990.

Prices

Reduced U.S. hog supplies and increased exports of hogs and pork improved North American hog prices during most of the year. The highest average price received for Index 100 hogs was 184.0 cents per kilogram ($83.46 per hundredweight) in June. The average annual price of Index 100 hogs in 1990 was 157.0 cents per kilogram ($71.22 per hundredweight), up 20.8 per cent from 1989 and 3.2 per cent above the five-year average (1985-1989).

TABLE 40: Monthly Average Weighted Hog Prices, 1988 - 1990

- cents per kilogram -

	Index 100			Sows		
Month	**1988**	**1989**	**1990**	**1988**	**1989**	**1990**
January	135.3	120	127	78.8	84	108
February	142.3	122	140	91.1	81	112
March	134.7	114	142	82.0	82	121
April	132.9	111	149	84.3	75	124
May	143.9	121	173	89.1	78	147
June	151.5	135	184	84.6	88	146
July	138.2	141	179	66.9	83	130
August	132.9	144	171	70.4	83	132
September	127.6	134	157	73.2	83	117
October	120.5	140	164	71.9	94	124
November	117.7	137	149	64.0	91	110
December	118.1	135	144	62.6	94	95
YEAR	**132.7**	**130**	**157**	**76.9**	**84**	**123**

- dollars per 100 pounds -

	Index 100			Sows		
Month	**1988**	**1989**	**1990**	**1988**	**1989**	**1990**
January	61.36	54.43	57.61	35.74	38.10	48.99
February	64.54	55.34	63.50	41.30	36.74	50.80
March	61.09	51.71	64.41	37.20	37.19	54.89
April	60.27	50.35	67.59	38.24	34.02	56.25
May	65.26	54.89	78.47	40.42	35.38	66.66
June	68.71	61.24	83.46	38.37	39.92	66.22
July	62.68	63.96	81.19	30.35	37.65	58.97
August	60.27	65.32	77.56	31.93	37.65	59.87
September	57.87	60.78	71.21	33.20	37.65	53.07
October	54.65	63.50	74.39	32.61	42.64	56.25
November	53.38	62.14	67.59	29.03	41.28	49.90
December	53.56	61.24	65.32	28.40	42.64	43.09
YEAR	**60.19**	**58.97**	**71.22**	**34.88**	**38.10**	**55.79**

SOURCE: Agriculture Canada.

Inventory

The total number of hogs on Manitoba farms on July 1, 1990 was 1,221,000 head, a decrease of 3.5 per cent from the same date in 1989. Market hogs totalled 1,089,000, a decrease of 3.6 per cent or 41,000 head from 1989. Sow numbers on farms, at 124,000 head in 1990 were 2.4 per cent below the 1989 level.

TABLE 41: Estimated Hog Numbers on Farms, July 1, 1990

Crop District	Under 20 Kg (45 lb)	20 to 60 kg (45-130 lb)	Over 60 kg (130 lb)	Breeding Stock	Total
1	15,170	16,780	12,330	5,000	49,280
2	25,130	23,980	24,250	9,510	82,870
3	18,560	17,580	14,060	6,400	56,600
4	1,780	1,100	630	620	4,130
5	6,870	6,640	6,190	2,660	22,360
6	6,890	6,470	4,410	2,790	20,560
7	59,790	57,040	53,030	21,000	190,860
8	89,960	85,990	74,130	29,590	279,670
9	99,520	98,210	91,600	33,880	323,210
10	9,420	12,590	10,260	3,360	35,630
11	33,910	36,100	34,310	12,590	116,910
12	13,000	10,520	10,800	4,600	38,920
PROVINCE	**380,000**	**373,000**	**336,000**	**132,000**	**1,221,000**

SOURCE: Statistics Canada, Manitoba Agriculture.

SHEEP AND LAMBS

Slaughterings and Exports

Supply/disposition balance sheet estimates indicate that live imports of sheep and lambs into Manitoba were close to 29,000 head in 1990, while exports and slaughterings of sheep and lambs totalled 48,480 head. Of these, 5,121 were slaughtered in provincially inspected packing plants compared with 4,751 in 1989. About 5,360 sheep and lambs were exported to the U.S. from Manitoba in 1990 compared to 5,600 in 1989. Sales of 21,700 Manitoba-produced sheep and lambs were valued at $1.165 million in 1990, down from $1.331 million in 1989.

TABLE 42: Provincially Inspected Sheep and Lamb Slaughter, 1987-1990

Month	1987	1988	1989	1990
January	295	225	259	277
February	260	185	271	224
March	306	337	446	297
April	346	458	282	420
May	277	370	328	260
June	397	315	443	439
July	290	342	334	311
August	357	373	358	475
September	425	560	579	510
October	330	385	438	600
November	358	478	399	637
December	475	530	614	671
YEAR	**4,116**	**4,558**	**4,751**	**5,121**

SOURCE: Agriculture Canada.

Prices

Prices in 1990 for all grades of animals averaged $1.18 per kilogram ($53.71 per hundredweight). The average price for A and B lambs, 36 kilograms (80 pounds) and over, is $1.32 per kilogram ($59.89 per hundredweight). The five-year average is $1.63 per kilogram ($74.14 per hundredweight).

Wool Production

The total farm value of shorn wool production in 1990 was estimated at $59,000, a decrease of 22.4 per cent from the 1989 value of $76,000. The average price received by producers was approximately $1.14 per kilogram (51.7 cents per pound). Production was 51 700 kilograms (114,000 pounds), unchanged from the 1989 production.

DAIRY

Farm sales of milk and farm separated cream in 1990 were 292 608 kilolitres, a decrease of 3.0 per cent from 1989. Cash receipts for all milk sold off the farm totalled $128,459,000, down 2.5 per cent from 1989. Supplementary payments of $10,004 decreased by 5.8 per cent below the 1989 level of $10,624,000.

The volume of milk sold for fluid purposes was 114 221 kilolitres in 1990, 1.4 per cent lower than in 1989. This represented 39.0 per cent of all sales in 1990. Fluid sales generated 51.8 per cent of total milk and cream cash receipts sold off the farm in 1990 compared to the 51.1 per cent contribution in 1989.

By comparison, the volume of milk and cream sold off the farm for industrial use amounted to 178 387 kilolitres in 1990, representing 61.0 per cent of total sales compared to the 1989 figure of 61.6 per cent. In 1990, off-farm sales for industrial use and supplementary payments contributed $67.1 million to milk and cream receipts, (52.2 per cent) compared to a 53.0 per cent contribution in 1989.

TABLE 43: Volume of Milk and Cream Sold Off Farm

	Sold for Fluid Uses	Sold for Industrial Uses		Total Volume of Sales
		Delivered as Milk	Delivered as Cream	
	kilolitres			
1986	114 028	147 843	29 446	291 317
1987	116 509	157 318	32 812	306 639
1988	117 298	161 945	31 868	311 111
1989	115 829	155 666	30 170	301 665
1990	114 221	149 871	28 516	292 608

SOURCE: Statistics Canada, Cat. No. 23-001.

TABLE 44: Cash Receipts from Milk and Cream Sold Off Farm

	Sold for Fluid Uses	Sold for Industrial Uses		Total Farm Sales	Supplementary Payments	Total Cash Receipts
		Delivered As Milk	Delivered As Cream			
	thousands of dollars					
1986	56,474	45,891	4,417	106,782	10,628	117,410
1987	56,477	48,775	4,994	110,246	11,071	121,317
1988	57,993	55,167	5,025	118,185	10,980	129,165
1989	61,933	54,127	5,141	121,201	10,624	131,825
1990	61,382	52,051	5,022	118,455	10,004	128,459

SOURCE: Statistics Canada, Cat. No. 23-001.

Creamery Butter Production

In 1990 butter production was 4 554 tonnes, an increase of 5.3 per cent over the 1989 value of 4 325 tonnes. The monthly average production was 379.5 tonnes in 1990 compared with 360.4 tonnes in 1989.

Cheddar Cheese Production

Cheddar cheese production in 1990 was 5 895 tonnes, down 4.8 per cent from the 1989 level of 6 192 tonnes. The ice-cream mix totalled 8 042 tonnes, down by 3.3 per cent from the 8 317 tonnes produced in 1989. This represents approximately one-half the actual ice-cream volume; two parts of ice-cream are made from one part of mix.

TABLE 45: Dairy Factory Production by Month, 1990

Month	Creamery Butter (tonnes)	Cheddar Cheese (tonnes)	Ice-Cream Mix (kilolitres)
January	428	497	466
February	358	476	584
March	413	560	666
April	396	463	746
May	411	490	757
June	365	532	802
July	336	498	903
August	326	487	923
September	330	439	642
October	399	485	551
November	433	471	486
December	359	497	516
YEAR	**4 554**	**5 895**	**8 042**

SOURCE: Statistics Canada, Cat. No. 23-001, monthly.

Total Milk Supply

Total milk production in the 1990 dairy year (August 1, 1989 to July 31, 1990) was 296.37 million litres, down 3.4 per cent from the 1989 level of 306.94 million litres. Milk production was 308.45 million litres in 1988.

The 1990 (dairy year) producer price for class 1 milk was $57.31 per hectolitre, up $3.20 per hectolitre from the price received up to December, 1988.

Milk Cows

The number of milk cows on Manitoba farms as of July 1, 1990 was 64,000 head, a 3.0 per cent decrease from 1989. Dairy replacement heifers on farms totalled 28,000, a 3.4 per cent decline from 1989.

POULTRY

The production value of poultry (eggs and meat) increased by 1.1 per cent in 1990 to an estimated $123,074,000. Eggs sold and used on farms declined, but prices were about the same as in 1989. Chick hatching egg numbers and prices also decreased, so the net effect was a decrease in total production value. Turkey hatching eggs increased in both numbers and value. The value of started pullets (already included in egg production value) fell from $9,085,000 in 1989 to $8,894,000 in 1990. Chicken meat prices declined, but sales were higher resulting in an increased production value. Turkey marketings increased and, with prices staying fairly constant, the production value increased by about 14 per cent. Declining goose production resulted in a lower production value for geese.

TABLE 46: Summary of Poultry Production

	- 1989 -			- 1990 -		
	Dozen (000)	Price (¢/doz)	Value ($000)	Dozen (000)	Price (¢/doz)	Value ($000)
EGGS						
Sold for consumption	51,302	101.6	52,123	49,627	100.2	49,726
Used on farms	205	101.6	208	204	100.2	204
Hatching (chicks)	2,426	293.0	7,108	2,279	288.0	6,564
	53,933		59,439	52,110		56,494
Hatching (turkeys)	354	782.0	2,768	424	825.0	3,498
TOTAL EGG VALUE	**54,287**		**62,207**	**52,534**		**59,992**
	Birds (000)	**Price ($ each)**	**Value ($000)**	**Birds (000)**	**Price ($ each)**	**Value ($000)**
MEAT						
Chicken:						
Broilers (under 1 kg)	1,296	1.24	1,607	1,350	1.23	1,660
Broilers (1-2 kg)	13,598	2.10	28,556	14,170	2.08	29,474
Roasters	1,610	4.31	6,939	1,736	4.22	7,326
Fowl	1,759	0.07	123	2,018	0.10	202
	18,263		37,225	19,274		38,662
Turkeys:						
Broilers	396	8.04	3,183	416	8.03	3,340
Hens	605	11.28	6,824	617	11.39	7,028
Heavies	441	17.73	7,819	557	17.80	9,914
	1,442		17,826	1,590		20,282
Geese	327	13.72	4,486	297	13.90	4,128
Ducks	3	4.25	13	4	2.53	10
TOTAL MEAT VALUE			**59,550**			**63,082**
TOTAL POULTRY PRODUCTION			**121,757**			**123,074**

* Revised.

SOURCE: Statistics Canada, Cat. No. 23-202; Agriculture Canada, Poultry Market Review; Manitoba Agriculture.

In 1990, the weighted average egg price was 100.2 cents per dozen, slightly below the average price of 101.6 cents per dozen last year. The monthly average delivered prices for all grades for 1985-1990 are shown below.

TABLE 47: Egg Prices to Producers, Winnipeg, 1985 - 1990 - *All Grades*

	- cents per dozen (weighted) -					
Month	**1985**	**1986**	**1987**	**1988**	**1989**	**1990**
January	88.3	84.7	83.6	83.4	101.0	97.7
February	89.5	86.9	83.5	84.6	101.0	97.4
March	89.7	87.7	82.9	84.7	100.6	100.4
April	87.4	86.2	80.8	83.1	99.7	97.5
May	86.6	84.2	79.1	83.8	100.0	95.3
June	87.5	84.9	81.1	85.3	102.2	97.2
July	87.8	85.6	82.4	88.2	102.9	100.8
August	87.3	88.7	81.6	92.2	100.3	103.0
September	86.5	82.3	80.9	92.7	100.9	103.5
October	86.4	86.0	81.6	95.8	101.9	101.8
November	86.1	84.9	82.6	96.6	102.9	103.3
December	85.3	81.3	80.5	96.0	103.2	103.4
YEAR	**87.4**	**85.4**	**81.7**	**88.8**	**101.6**	**100.2**

SOURCE: Canadian Egg Marketing Agency.

The average number of laying hens per month at year end on Manitoba farms was 2,355,000 in 1990 and 2,407,000 in 1989. The average production per bird at year end was 279 eggs per year in 1990 compared with 269 in 1989.

The egg quota allocation to Manitoba by the Canadian Egg Marketing Agency for 1990 was 2,159,681 and the inventory was 2,066,126 for a 95.05 per cent utilization. The average number of registered producers was 231 compared to 240 a year earlier. The average number of layers per producer was 9,349 for 1990 as compared to 9,178 a year earlier.

OTHER LIVESTOCK

HORSES

The 1986 Census of Agriculture indicated 5,540 farms reported 40,691 horses and ponies. This figure represents an increase of 30 per cent over the 1981 Census figure of 31,284. In 1990, it was estimated that 178 farms supplied pregnant mare's urine from 13,202 mares for a gross value of $17,001,700. This compares to 11,903 mares and a gross value of $16,023,500 in 1989.

GOATS

The 1986 Census of Agriculture reported a total of 3,663 goats from 597 farms.

RABBITS

The 1986 Census of Agriculture reported a total of 643 rabbit farms with a rabbit population of 8,156.

OTHER PRODUCTS

FUR AND WILDLIFE

Pelts are obtained from both fur farms and wildlife sources. In the 1989/90 season 45,432 pelts were produced - 997 fox and 44,435 mink for a total farm value of $822,105. Fox pelts were obtained from 28 farms for a value of $37,906, reflecting an 18.6 per cent decline from 1989. Fifty-three mink farms produced mink pelts valued at $784,199, a fall of 45.5 per cent from 1989.

Wildlife pelts totalled 68,061 in 1990 only 19 per cent of the number in the peak-value year 1986/87. The market value of $1,563,805 was 81 per cent less than that of 1986/87.

The number of farmed and wildlife pelts fell 72 per cent below 1986/87 with overall fur value reflecting a decline of 77 per cent.

TABLE 48: Fur Statistics, 1986/87 to 1989/90[1]

Fur Farms	1986/87	1987/88	1988/89[R]	1989/90
Fox:				
Pelts	926	820	775	997
Value	$165,782	$93,129	$46,546	$37,906
Number of Farms	18	18	14	28
Mink:				
Pelts	55,072	48,375	56,955	44,435
Value	$2,380,315	$1,810,329	$1,439,424	$784,199
Number of Farms	28	23	25	53
TOTAL PELTS	**55,998**	**49,195**	**57,730**	**45,432**
TOTAL VALUE	**$2,546,097**	**$1,903,458**	**$1,485,970**	**$822,105**
Wildlife:				
Pelts	353,791	391,744	107,920	68,061
Value	$8,070,118	$5,393,731	$2,259,584	$1,563,805
TOTAL FURS				
Pelts	**409,789**	**440,939**	**165,650**	**113,493**
Value	**$10,616,215**	**$7,297,189**	**$3,745,554**	**$2,385,910**

R Revised.
SOURCE: Statistics Canada; Cat. No. 23-207 and 23-208.

FOREST PRODUCTS

The value of production was estimated at $1,562,000 in 1990, down by 0.4 per cent from the value of $1,569,000 in 1989. This was based on total commercial sales and included plywood and fence posts. The 1986 Census reported 124 217 hectares (306,948 acres) of woodlands compared to 284 184 hectares (613,277 acres) reported in the 1981 Census of Manitoba.

HONEY AND ALFALFA LEAFCUTTING BEES

Following the relatively mild winter of 1989/90, winter honey bee colony losses were variable, but overall in the normal range of 5-15 per cent for most beekeepers. Spring conditions were generally good to excellent for colony build up. Moisture conditions improved resulting in good plant development with excellent nectar availability. However, cool weather conditions during the first two weeks of July reduced honey production resulting in a less than average production for most beekeepers.

As a result of reduced honey inventories throughout North America, honey prices improved somewhat during the year.

TABLE 49: Honey Prices and Production, 1989, 1990

	1989	1990
Number of Beekeepers	1,100	1,050
Number of Colonies	87,000	83,000
Honey:		
Average kg/hive	64	66
Average lb/hive	140	145
Total Production - kg	5 568 000	5 478 000
Total Production - lb	12,180,000	12,035,000
Price/kg - cents	99	121
Price/lb - cents	45	55
TOTAL VALUE	**$5,481,000**	**$6,619,250**
Beeswax:		
Production - kg	83 520	82 170
Production - lb	182,700	180,525
Price/kg - cents	275	275
Price/lb - cents	125	125
TOTAL VALUE	**$228,375**	**$225,656**
TOTAL VALUE HONEY AND BEESWAX	**$5,709,375**	**$6,844,906**

SOURCE: Manitoba Agriculture

Alfalfa Leafcutting Bees. Alfalfa leafcutting bees are used in the pollination of alfalfa for seed production. While spring moisture conditions were generally favourable, cool temperatures slowed crop development somewhat. Dry growing conditions prevailed throughout most of July and August, which resulted in average bee reproduction but below average alfalfa seed production in 1990.

TABLE 50: Production of Leafcutting Bees and Alfalfa Seed, 1989, 1990

	1989	1990
Number of Leafcutter Beekeepers	210	235
Number of Leafcutting Bees	407,000,000	560,000,000
Price of Leafcutting Bees (per bee)	$0.005	$0.006
TOTAL VALUE OF BEES	**$2,035,000**	**$3,360,000**
Alfalfa Seed - ha	11 332	11 332
Alfalfa Seed - ac	28,000	28,000
Alfalfa Seed Production - kg	4 500 000	2 500 000
Alfalfa Seed Production - lb	9,920,000	5,512,000
Price/kg	$1.43	$2.00
Price/lb	$0.65	$0.91
TOTAL VALUE OF SEED	**$6,435,000**	**$5,000,000**
TOTAL VALUE OF BEES AND SEED	**$8,470,000**	**$8,360,000**

NOTE: Statistics reflect total alfalfa acreage (pedigreed and common).

SOURCE: Manitoba Agriculture

RESOURCES

LAND AND FARMS

TABLE 51: Land Use by Area, 1986[R]

Crop District	- IMPROVED LAND -					- UNIMPROVED LAND -			TOTAL LAND
	Crops	Fallow	Pasture	Other	Total	Pasture	Woodland	Other	
	- 000 hectares -								
1	524	40	23	8	595	114	3	29	741
2	524	54	31	10	619	179	7	51	856
3	464	88	28	10	590	154	13	80	837
4	186	56	22	5	269	78	9	37	393
5	190	31	15	4	240	60	8	31	339
6	351	55	37	10	453	331	21	62	867
7	662	35	32	13	742	129	12	32	915
8	768	20	16	11	815	79	7	29	930
9	338	31	12	9	390	55	8	15	468
10	72	14	8	3	97	42	10	21	170
11	215	33	13	6	267	68	5	10	350
12	225	52	38	11	326	425	20	103	374
PROVINCE	**4 519**	**509**	**275**	**100**	**5 403**	**1 714**	**124**	**499**	**7 740**

Crop District	- IMPROVED LAND -					- UNIMPROVED LAND -			TOTAL LAND
	Crops	Fallow	Pasture	Other	Total	Pasture	Woodland	Other	
	- 000 acres -								
1	1,295	98	56	20	1,469	283	8	71	1,831
2	1,295	133	78	25	1,531	442	17	126	2,116
3	1,146	219	68	25	1,458	382	33	196	2,069
4	461	138	54	12	665	193	22	91	971
5	468	77	37	10	592	147	21	77	837
6	868	137	92	23	1,120	818	52	152	2,142
7	1,635	87	81	32	1,835	319	28	79	2,261
8	1,898	49	39	27	2,013	195	19	72	2,299
9	835	76	30	23	964	136	20	37	1,157
10	179	34	20	7	240	103	25	51	419
11	532	81	31	15	659	167	13	26	865
12	556	129	93	27	805	1,050	49	255	2,159
PROVINCE	**11,168**	**1,258**	**679**	**246**	**13,351**	**4,235**	**307**	**1,233**	**19,126**

SOURCE: Statistics Canada, Census 1986

FARM NUMBER, SIZE, TYPES

The 1986 Census, taken on June 3rd, defines a farm as a farm, ranch or other agricultural holding with sales of agricultural products during the past 12 months of $250 or more.

In 1986, the total number of all farms in Manitoba numbered 27,336, a 7.2 per cent decline from 1981. Each farm averaged 283 hectares (700 acres). Details about farm size, numbers and product sales for Manitoba in 1986 are listed below.

TABLE 52: Size and Number of Farms by Area, 1986

Crop District	Census Farms (sales ≥ $250) Number	Hectares	Acres	Number of Census Farms (with sales ≥ $2,500) Number	% of All Farms	Number of Census Farms (with sales ≥ $10,000) Number	% of All Farms
1	1,952	380	938	1,901	97	1,771	91
2	2,576	332	822	2,437	95	2,188	85
3	2,630	318	787	2,505	95	2,214	84
4	1,288	305	754	1,207	94	996	77
5	1,214	279	690	1,132	93	934	77
6	2,506	346	855	2,327	93	1,877	75
7	3,076	297	735	2,903	94	2,594	84
8	3,982	234	577	3,830	96	3,531	89
9	3,024	155	383	2,638	87	2,112	70
10	886	191	473	735	83	486	55
11	1,860	188	465	1,578	85	1,173	63
12	2,342	373	922	2,069	88	1,553	66
PROVINCE	**27,336**	**283**	**700**	**25,262**	**92**	**21,429**	**78**

SOURCE: Statistics Canada, Census of Agriculture.

TABLE 53: Per Cent of Farms with Crops and Livestock, 1986

Crop District	- CROPS - Wheat	Oats	Barley	Flax	Canola (Rapeseed)	- LIVESTOCK - Cattle	Hogs	Sheep	Poultry
1	98	25	51	29	28	54	9	1	17
2	69	32	53	22	23	55	11	2	18
3	80	26	62	20	31	54	12	1	22
4	76	34	50	9	34	64	9	2	26
5	77	30	46	31	27	43	13	2	21
6	64	33	36	15	30	60	11	2	23
7	70	27	43	41	31	46	12	2	16
8	79	14	47	54	30	42	20	1	15
9	50	16	30	23	8	42	17	2	20
10	37	23	21	16	11	52	11	3	20
11	54	17	27	18	12	41	11	2	15
12	30	19	28	11	16	66	10	2	21
PROVINCE	**65**	**24**	**43**	**27**	**24**	**51**	**13**	**2**	**19**

SOURCE: Statistics Canada, Census of Agriculture.

TENURE

TABLE 54: Farms Classified by Tenure of Operator, 1986

	No. of Operators	Total Hectares	Total Acres
Owner	25,091	4 871 428	12,037,564
Renter/Lessee	13,552	2 868 798	7,088,953
From Government	3,075	929 248	2,296,218
From Other Sources	11,729	1 939 550	4,792,735
TOTAL		**7 740 226**	**19,126,517**

SOURCE: Statistics Canada, Census of Agriculture.

PEOPLE

Population

Manitoba's farm population continued to decline with the consolidation of farms. In 1986 there were 86,505 people on Census farms. Of the 27,336 farm operators, 10.6 per cent did not live on the farms they operated, 1.3 per cent lived on their farms four months or less, 1.9 per cent lived there five to eight months and 86.2 per cent lived on their farms nine to twelve months. About 44.4 per cent of the operators were between 35 and 54 years of age, 22.2 per cent under 35 years, 21.6 per cent between 55 and 64, and 11.8 per cent over 65 years of age.

Census Farm Labour

The 1986 Census of Agriculture revealed that 9,714 farms reported 1,536,485 days of total off-farm work by farm operators in 1985. Of this, 2,179 farms reported 235,001 days of agricultural work and 8,102 farms reported 1,301,484 days of non-agricultural work.

Hired Agricultural Labour. The 1986 Census of Agriculture also reported that 12,140 farms hired paid labour for 342,706 weeks. This included the hiring of 167,867 weeks of year-round labour by 2,617 farms and 174,838 weeks of seasonal labour by 10,798 farms.

FARM WAGES

In 1990, the hired farm labour index experienced a 3.4 per cent increase over 1989 and an 8.7 per cent rise over 1988. Total wages paid amounted to $129.5 million in 1990 with 99 per cent paid out as cash wages. This represents a 3.0 per cent increase over the 1989 total wage cost of $125.7 million.

CAPITAL

Investment in Agriculture

The revised average investment per Manitoba farm reporting in the 1986 Census amounted to $349,100, a decrease of 1.8 per cent below 1981. Land and buildings accounted for 70.0 per cent, machinery for 23.4 per cent and livestock for 7.6 per cent, respectively, of the total capital investment. Total provincial investment in agriculture was revised to $9,543,007,000 in 1986, 8.8 per cent below 1981. The average capital investment in land and buildings was $240,864 per farm, based on the 1986 Census. This value decreased substantially since 1981, reflecting trends towards lower land values. In 1986 the total value of capital invested in land and buildings was estimated at $6,584,281,000, down 7 per cent from the total in 1985.

In 1990, total investment in agriculture amounted to $9,674,765,000, 6.2 per cent more than the revised 1989 value of $9,110,999,000. (See Table 10.)

The value of land and buildings in Manitoba in 1990 was estimated at $6,437,301,000, 7.8 per cent above 1989. On a per farm basis, the average investment in land and buildings in 1990 was $243,000, up 9.0 per cent from the 1989 level.

TABLE 55: Capital Investment Per Farm Reporting By Area, 1986

Crop District	Land and Buildings	Machinery and Equipment	Livestock	Total*
	- dollars per farm -			
1	288,730	113,681	43,904	428,674
2	251,804	91,322	45,647	370,326
3	208,587	83,874	35,424	313,334
4	179,993	70,684	35,847	274,452
5	194,133	71,921	30,005	282,876
6	154,967	64,321	43,354	247,847
7	320,091	103,213	50,491	449,689
8	331,555	107,827	36,039	457,056
9	261,951	72,432	48,532	362,076
10	137,384	44,453	35,212	204,766
11	232,534	69,986	42,255	325,221
12	135,084	54,313	55,217	229,420
PROVINCE	240,864	83,380	43,860	349,525

* As a different number of farms reported for each component, the total value per farm is not equal to the sum of the component values.

SOURCE: Statistics Canada, Census of Agriculture

TABLE 56: Value of Farm Capital, By Province, 1986 - 1990

	1986	1987	1988[R]	1989[R]	1990
			- thousand dollars -		
CANADA	**109,568,280**	**104,333,431**	**103,059,168**	**110,153,826**	**114,296,530**
Manitoba	9,543,001	9,192,287	8,693,804	9,110,999	9,674,765
B.C	6,484,251	5,938,758	5,867,801	6,050,781	6,334,834
Alberta	28,585,924	27,900,160	27,476,758	29,727,754	31,107,068
Saskatchewan	29,231,394	26,144,678	24,423,211	24,336,296	24,111,212
Ontario	23,709,244	22,923,635	24,383,784	28,369,848	29,920,295
Quebec	9,453,728	9,683,134	9,667,977	9,964,313	10,418,464
New Brunswick	755,735	749,446	745,819	745,372	781,009
Nova Scotia	961,747	962,319	963,294	988,340	1,010,109
P.E.I.	736,706	730,743	725,940	748,082	824,383
Newfoundland	106,550	108,271	110,780	112,041	114,391

SOURCE: Statistics Canada.

LAND VALUES

TABLE 57: Value per Unit of Farmland and Buildings, Manitoba and Canada

	$ per hectare		$ per acre	
Year	**Manitoba**	**Canada**	**Manitoba**	**Canada**
1980	875	1,352	354	547
1981	1,013	1,520	410	615
1982	939	1,517	380	614
1983	939	1,448	380	586
1984	907	1,379	367	558
1985	887	1,278	359	517
1986	850	1,181	344	478
1987	791	1,090	320	441
1988	726	1,077	294	436
1989	771	1,176	312	476
1990	830	1,233	336	499
AVERAGES				
1921-30	65	81	26	33
1931-40	38	49	15	20
1941-50	49	57	20	23
1951-60	84	96	34	39
1961-70	145	182	59	74
1971-80	435	645	176	261
1981-90	865	1,290	350	522

SOURCE: Statistics Canada.

MACHINERY

The number of farm trucks licensed for operation in Manitoba in 1990 was 60,622, an increase of 4.4 per cent above the 1989 total of 58,069. The number of farm trucks dropped between 1985 and 1989, but rose in 1990.

TABLE 58: Farm Machinery Numbers and Sales

	Number on Manitoba Farms	Sales During		
	1986 Census	1988	1989	1990
Tractors	73,945	1,040	1,073	1,010
Trucks	57,502	—	—	—
Combines:	21,946	145	277	302
self-propelled	14,082	113	199	—
pull-type	6,328	32	78	—
Balers:	15,317	510	492	470
hand portable bales	9,860	54	91	—
large round bales	5,457	456	401	—
Swathers and Windrowers	24,528	601	392	190
self-propelled	14,082	424	155	—
pull-type	10,446	177	237	—
Mower Conditioners	5,080	190	190	—
Forage Crop Harvesters	978	11	12	—
Grain Dryers	3,381	—	—	—
Potato Harvesters	343	—	—	—
All Other Farm Machinery	21,724	—	—	—

SOURCE: Statistics Canada; Canadian Farm and Industrial Equipment Institute.

FERTILIZER

The volume of fertilizer sales, excluding mixed fertilizers, increased to 658 100 tonnes (725,400 tons) in 1990 from 627 500 tonnes (691,700 tons) in 1989.

TABLE 59: Sales of Fertilizer, July 1 to June 30, 1988 to 1990

Formulation	Tonnes Sold			Tons Sold		
	1988	1989	1990	1988	1989	1990
			- thousands -			
Types:						
Ammonium Phosphate	191.3	175.1	182.9	210.9	193.0	210.6
Ammonium Nitrate	54.4	54.4	52.9	60.0	60.0	58.3
Urea	150.6	149.5	150.6	166.0	164.8	166.0
Anhydrous Ammonia	134.4	111.2	124.6	148.2	122.6	137.3
Nitrogen Solutions	53.1	41.7	42.9	58.5	46.0	47.3
Ammonium Sulphate	21.5	21.8	23.0	23.7	24.0	25.4
Potassium Chloride	35.7	27.2	34.0	39.4	30.0	37.5
Other Fertilizer Materials[1]	37.2	46.6	47.2	41.0	51.4	52.0
TOTAL FERTILIZER SALES	**678.2**	**627.5**	**658.1**	**747.6**	**691.8**	**725.4**

[1] Includes other nitrogen, other phosphates and other fertilizers.

SOURCE: Statistics Canada; Western Canada Fertilizer Association.

WEATHER

TABLE 60: Weather Record for the Year 1990, Winnipeg

	Temperature		Precipitation		Sunshine		
Month	Mean Monthly °C	Normal Mean °C	1990 mm	Normal mm	Duration (Hours)	Per Cent of Possible	Normal Hours
January	-11.6	-19.3	24.4	21.3	103.2	38.6	121.2
February	-14.6	-15.6	9.1	17.5	168.7	59.9	144.2
March	-4.1	-8.2	32.8	22.7	185.5	50.4	176.2
April	2.8	3.4	19.8	38.5	223.7	54.2	219.8
May	10.3	11.3	29.7	65.7	314.0	65.8	265.6
June	17.6	16.8	143.1	80.1	291.4	59.6	276.1
July	19.2	19.6	33.2	75.9	332.6	67.5	315.6
August	20.0	18.3	16.9	75.2	334.5	74.6	283.3
September	13.9	12.4	31.5	53.3	213.8	56.3	184.6
October	5.1	6.1	8.8	30.9	170.2	51.0	151.5
November	-4.3	-4.5	19.6	25.2	103.3	37.9	90.7
December	-16.4	-14.0	24.1	19.2	119.3	47.1	92.6
YEAR	**3.2**	**2.2**	**393.0**	**525.5**	**2,560.2**	**57.2**	**2,321.4**

SOURCE: Atmospheric Environment Service, Environment Canada.

TABLE 61: Precipitation at Various Manitoba Points, 1990

- millimetres -

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	YEAR
Altona	34.90	25.00	56.60	38.70	31.80	139.90	61.20	37.60	24.30	8.40	8.60	32.50	499.50
Birtle	11.60	4.60	25.60	39.50	48.80	102.20	94.20	48.40	74.00	10.40	23.20	31.00	513.50
Brandon A	22.20	12.80	22.00	46.60	83.20	77.30	67.80	120.70	23.20	9.00	14.50	40.60	539.90
Carman	19.60	10.20	59.50	46.00	54.20	186.20	53.20	52.20	30.20	9.40	13.40	35.20	569.30
Churchill A	23.40	7.80	21.10	27.20	11.60	2.20	59.00	74.30	51.80	91.80	50.60	33.50	454.30
Cypress River	14.40	11.20	54.60	40.60	72.20	137.40	60.00	38.20	15.40	11.80	18.40	35.20	509.40
Dauphin A	32.90	16.30	50.60	35.70	67.20	99.30	71.70	31.80	23.30	14.70	16.80	25.30	485.60
Emerson	42.30	20.80	30.70	33.30	39.50	156.00	62.20	26.20	22.40	13.20	5.60	29.10	481.30
Flin Flon	26.40	11.60	17.00	51.30	3.40	69.40	62.60	52.60	12.40	53.20	61.80	9.60	431.30
Gimli	38.70	9.40	44.80	43.10	55.90	188.90	101.30	20.80	40.20	5.20	26.00	23.10	597.40
Hamiota	41.60	17.60	45.00	13.20	60.40	94.00	65.40	46.10	57.80	3.40	7.20	28.50	480.20
Lundar	33.50	11.00	38.80	39.40	47.20	97.60	67.80	54.20	13.00	3.20	24.30	21.50	451.50
McCreary	32.00	19.00	34.00	44.00	77.40	73.60	67.00	69.00	6.80	9.90	12.60	12.00	457.30
Morden AC	13.40	16.60	51.00	46.60	43.60	185.40	42.40	47.00	17.00	5.20	9.80	28.80	506.80
Morris	18.40	17.80	63.80	33.60	23.40	213.20	45.20	27.20	33.60	15.40	14.00	32.20	537.80
Neepawa	27.00	11.80	45.20	40.80	65.40	80.40	54.60	44.40	27.80	9.40	16.80	31.70	455.30
Pierson	15.00	12.20	42.00	32.80	49.80	104.00	63.20	19.60	25.40	4.40	12.60	28.60	409.60
Pilot Mound	24.40	28.00	54.40	46.20	65.60	124.80	49.00	63.60	26.00	9.80	14.60	32.00	538.40
Pinawa	35.20	8.60	34.40	31.70	35.70	170.90	89.60	28.60	42.30	10.40	26.40	24.80	538.60
Portage la Prairie	25.60	12.30	54.90	32.30	42.70	133.60	53.60	42.60	19.20	8.50	17.40	37.10	479.80
Roblin	38.60	16.90	38.40	29.90	59.50	115.70	62.30	41.50	30.40	9.50	23.90	23.10	489.70
Russell	48.40	12.80	30.60	24.40	63.40	122.40	104.20	109.80	45.80	9.00	M	M	570.80
Souris	24.00	16.00	64.00	45.40	89.80	85.40	110.80	80.20	17.00	11.60	14.50	34.00	592.70
Sprague	21.00	18.00	50.80	51.40	21.80	135.80	86.80	37.60	41.80	19.20	9.60	26.00	519.80
Steinbach	27.00	18.50	52.60	23.40	73.70	180.50	66.20	23.70	37.50	14.70	14.60	21.00	553.40
Swan River	43.60	22.60	37.20	49.80	53.80	98.00	67.20	62.40	8.20	12.20	18.80	31.00	504.80
The Pas A	27.40	18.90	13.60	36.30	15.60	38.20	24.60	22.50	19.70	33.30	48.40	8.20	306.70
Thompson A	18.00	13.20	11.30	50.50	2.80	75.80	61.00	27.60	15.40	54.60	99.90	19.80	449.90
Turtle Mountain	21.00	11.00	53.50	38.40	66.00	195.00	75.60	84.00	30.80	6.80	6.90	41.00	630.00
Virden	20.80	5.60	87.00	27.80	52.80	103.40	89.60	47.70	17.20	12.30	18.80	33.80	516.80
Winnipeg A	24.40	9.10	32.80	19.80	29.70	143.10	33.20	16.90	31.50	8.80	19.60	24.10	393.00

- Inches -

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	YEAR
Altona	1.37	0.98	2.23	1.52	1.25	5.51	2.41	1.48	0.96	0.33	0.34	1.28	19.67
Birtle	0.46	0.18	1.01	1.56	1.92	4.02	3.71	1.91	2.91	0.41	0.91	1.22	20.22
Brandon A	0.87	0.50	0.87	1.83	3.28	3.04	2.67	4.75	0.91	0.35	0.57	1.60	21.26
Carman	0.77	0.40	2.34	1.81	2.13	7.33	2.09	2.06	1.19	0.37	0.53	1.39	22.41
Churchill A	0.92	0.31	0.83	1.07	0.46	0.09	2.32	2.93	2.04	3.61	1.99	1.32	17.89
Cypress River	0.57	0.44	2.15	1.60	2.84	5.41	2.36	1.50	0.61	0.46	0.72	1.39	20.06
Dauphin A	1.30	0.64	1.99	1.41	2.65	3.91	2.82	1.25	0.92	0.58	0.66	1.00	19.12
Emerson	1.67	0.82	1.21	1.31	1.56	6.14	2.45	1.03	0.88	0.52	0.22	1.15	18.95
Flin Flon	1.04	0.46	0.67	2.02	0.13	2.73	2.46	2.07	0.49	2.09	2.43	0.38	16.98
Gimli	1.52	0.37	1.76	1.70	2.20	7.44	3.99	0.82	1.58	0.20	1.02	0.91	23.52
Hamiota	1.64	0.69	1.77	0.52	2.38	3.70	2.57	1.81	2.28	0.13	0.28	1.12	18.91
Lundar	1.32	0.43	1.53	1.55	1.86	3.84	2.67	2.13	0.51	0.13	0.96	0.85	17.78
McCreary	1.26	0.75	1.34	1.73	3.05	2.90	2.64	2.72	0.27	0.39	0.50	0.47	18.00
Morden AC	0.53	0.65	2.01	1.83	1.72	7.30	1.67	1.85	0.67	0.20	0.39	1.13	19.95
Morris	0.72	0.70	2.51	1.32	0.92	8.39	1.78	1.07	1.32	0.61	0.55	1.27	21.17
Neepawa	1.06	0.46	1.78	1.61	2.57	3.17	2.15	1.75	1.09	0.37	0.66	1.25	17.93
Pierson	0.59	0.48	1.65	1.29	1.96	4.09	2.49	0.77	1.00	0.17	0.50	1.13	16.13
Pilot Mound	0.96	1.10	2.14	1.82	2.58	4.91	1.93	2.50	1.02	0.39	0.57	1.26	21.20
Pinawa	1.39	0.34	1.35	1.25	1.41	6.73	3.53	1.13	1.67	0.41	1.04	0.98	21.20
Portage la Prairie	1.01	0.48	2.16	1.27	1.68	5.26	2.11	1.68	0.76	0.33	0.69	1.46	18.89
Roblin	1.52	0.67	1.51	1.18	2.34	4.56	2.45	1.63	1.20	0.37	0.94	0.91	19.28
Russell	1.91	0.50	1.20	0.96	2.50	4.82	4.10	4.32	1.80	0.35	0.00	0.00	22.47
Souris	0.94	0.63	2.52	1.79	3.54	3.36	4.36	3.16	0.67	0.46	0.57	1.34	23.33
Sprague	0.83	0.71	2.00	2.02	0.86	5.35	3.42	1.48	1.65	0.76	0.38	1.02	20.46
Steinbach	1.06	0.73	2.07	0.92	2.90	7.11	2.61	0.93	1.48	0.58	0.57	0.83	21.79
Swan River	1.72	0.89	1.46	1.96	2.12	3.86	2.65	2.46	0.32	0.48	0.74	1.22	19.87
The Pas A	1.08	0.74	0.54	1.43	0.61	1.50	0.97	0.89	0.78	1.31	1.91	0.32	12.07
Thompson A	0.71	0.52	0.44	1.99	0.11	2.98	2.40	1.09	0.61	2.15	3.93	0.78	17.71
Turtle Mountain	0.83	0.43	2.11	1.51	2.60	7.68	2.98	3.31	1.21	0.27	0.27	1.61	24.80
Virden	0.82	0.22	3.43	1.09	2.08	4.07	3.53	1.88	0.68	0.48	0.74	1.33	20.35
Winnipeg A	0.96	0.36	1.29	0.78	1.17	5.63	1.31	0.67	1.24	0.35	0.77	0.95	15.47

AC Agriculture Canada A Airport M Missing

NOTE: Totals may not add due to conversion to Imperial from metric data.

SOURCE: Environment Canada.

PAST TRENDS

TABLE 62: Historical Production Value Summary

Year	Crops[R]	Livestock[R]	Other*[R]	Total[R]
		- million dollars -		
1956	209.2	103.3	4.9	317.4
1957	158.2	109.3	4.7	272.2
1958	195.6	140.0	4.5	340.1
1959	202.2	129.7	4.7	336.6
1960	225.1	121.6	4.3	351.0
1961	137.3	132.5	4.1	273.9
1962	292.7	126.1	4.1	422.9
1963	243.1	135.4	4.4	382.9
1964	296.8	134.3	4.3	435.4
1965	319.9	142.5	5.6	468.0
1966	323.2	165.3	4.9	493.4
1967	308.9	162.4	5.9	477.2
1968	292.4	162.7	5.0	460.1
1969	250.1	208.5	4.9	463.5
1970	226.8	221.7	4.0	452.5
1971	331.9	205.7	3.3	540.9
1972	437.5	253.1	5.1	695.7
1973	919.4	354.9	6.5	1,280.8
1974	708.8	338.8	6.9	1,054.5
1975	768.8	325.4	7.7	1,101.9
1976	748.1	329.8	10.3	1,088.2
1977	855.6	344.8	10.3	1,210.7
1978	1,085.1	420.6	13.5	1,519.2
1979	1,097.8	536.2	15.1	1,649.1
1980	1,089.2	533.6	14.0	1,636.8
1981	1,497.9	522.7	16.8	2,037.4
1982	1,419.7	561.5	18.9	2,000.1
1983	1,393.1	574.8	19.2	1,987.1
1984	1,617.9	652.8	21.9	2,292.6
1985	1,702.7	676.3	30.4	2,409.4
1986	1,264.9	773.7	31.7	2,070.3
1987	1,150.4	734.9	34.2	1,919.5
1988	1,122.3	762.0	29.3	1,913.6
1989	1,336.0	721.0	29.1	2,086.1
1990	1,439.7	835.3	31.2	2,306.2

* Includes value of honey and beeswax, fur and forest products commencing 1956, leafcutting bees commencing 1983 and PMU operations commencing 1967.

TABLE 63: Historical Production Value Summary of Grains

Year	All Wheat	Oats	Barley	All Rye	Mixed Grains	Grain Corn	TOTAL GRAINS
			- thousand dollars -				
1956	72,800	45,760	35,280	1,067	1,499	214	156,620
1957	64,680	24,960	26,730	1,056	1,220	240	118,886
1958	82,960	28,000	35,640	1,020	2,244	203	150,067
1959	85,560	32,000	25,740	1,461	3,058	142	147,961
1960	106,260	34,720	20,160	1,444	2,996	193	165,773
1961	59,840	15,120	9,450	957	2,600	141	88,108
1962	136,000	52,510	20,160	3,150	4,100	152	216,072
1963	104,310	34,100	15,520	2,625	2,964	225	159,744
1964	138,550	47,450	16,800	2,940	4,116	150	210,006
1965	130,350	52,540	23,100	3,120	5,100	188	214,398
1966	140,620	48,000	30,800	2,592	6,503	191	228,706
1967	147,600	45,540	29,370	2,880	6,030	412	231,832
1968	119,210	40,500	33,970	2,500	5,929	132	202,241
1969	79,360	37,260	28,980	2,573	4,544	135	152,852
1970	43,310	30,210	37,740	2,469	6,532	210	120,471
1971	101,380	40,280	65,800	2,460	8,775	550	219,245
1972	128,340	49,500	107,100	2,397	13,500	1,085	301,922
1973	331,100	102,690	208,330	5,684	25,875	2,684	676,363
1974	236,000	65,360	117,600	5,625	11,400	697	436,682
1975	275,340	72,000	116,280	7,500	13,950	2,288	487,358
1976	288,400	68,930	134,000	5,750	10,833	3,473	511,386
1977	269,670	57,420	155,100	7,190	13,040	4,061	506,481
1978	375,440	40,590	143,650	10,220	12,920	16,240	599,060
1979	346,500	27,400	129,920	11,590	12,626	24,570	552,606
1980	386,400	33,120	214,560	12,760	11,395	25,500	683,735
1981	578,720	48,620	277,300	25,910	12,670	45,770	988,990
1982	610,660	42,400	215,940	18,540	11,620	26,670	925,830
1983	593,340	44,110	190,680	17,440	11,270	28,340	885,180
1984	643,680	47,090	234,500	18,210	13,210	33,040	989,730
1985	757,770	45,450	250,070	11,040	10,300	9,120	1,083,750
1986	501,480	37,500	144,380	3,710	5,550	5,610	698,230
1987	390,700	43,260	137,600	3,930	5,880	10,030	591,400
1988	415,360	34,270	139,390	6,130	5,190	13,830	614,170
1989	605,400	29,490	177,790	15,440	6,120	13,300	847,540
1990	639,310	26,580	181,260	11,580	6,210	17,050	881,990

TABLE 64: Historical Production and Value of Wheat

Year	Harvested Hectares (000)	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956	890	1 710	1 524.0	48.00	72,800
1957	891	1 495	1 333.0	48.00	64,680
1958	1 004	1 655	1 660.0	50.00	82,960
1959	1 081	1 560	1 687.0	51.00	85,560
1960	1 133	1 585	1 796.0	59.00	106,260
1961	1 179	785	926.0	65.00	59,840
1962	1 231	1 770	2 177.0	62.00	136,000
1963	1 276	1 300	1 660.0	63.00	104,310
1964	1 370	1 690	2 313.0	60.00	138,550
1965	1 311	1 640	2 150.0	61.00	130,350
1966	1 317	1 630	2 150.0	65.00	140,620
1967	1 424	1 720	2 449.0	60.00	147,600
1968[R]	1 376	1 800	2 477.0	48.00	119,210
1969	1 012	1 720	1 742.0	46.00	79,360
1970	567	1 465	830.0	52.00	43,310
1971	1 019	1 975	2 014.0	50.00	101,380
1972	1 052	1 785	1 878.0	68.00	128,340
1973	1 214	1 725	2 095.0	158.00	331,100
1974	1 133	1 415	1 605.0	147.00	236,000
1975	1 255	1 690	2 123.0	130.00	275,340
1976	1 538	1 820	2 803.0	103.00	288,400
1977	1 295	2 125	2 749.0	98.00	269,670
1978	1 376	2 055	2 831.0	133.00	375,440
1979[R]	1 214	1 680	2 041.0	170.00	346,500
1980[R]	1 336	1 425	1 905.0	203.00	386,400
1981[R]	1 578	2 110	3 326.0	174.00	578,720
1982[R]	1 619	2 290	3 701.0	165.00	610,660
1983[R]	1 861	1 830	3 410.0	174.00	593,340
1984[R]	1 801	2 080	3 742.3	172.00	643,680
1985[R]	1 942	2 690	5 226.0	145.00	757,770
1986[R]	2 003	2 240	4 477.5	112.00	501,480
1987[R]	1 963	2 010	3 946.5	99.00	390,700
1988[R]	1 950	1 230	2 400.9	173.00	415,360
1989[R]	2 094	1 940	4 063.1	149.00	605,400
1990	2 198	2 670	5 865.2	109.00	639,310

TABLE 64: Wheat Continued

Year	Harvested Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	2,199	25.6	56,000	1.30	72,800
1957	2,200	22.3	49,000	1.32	64,680
1958	2,480	24.6	61,000	1.36	82,960
1959	2,670	23.1	62,000	1.38	85,560
1960	2,800	23.6	66,000	1.61	106,260
1961	2,914	11.7	34,000	1.76	59,840
1962	3,042	26.3	80,000	1.70	136,000
1963	3,153	19.3	61,000	1.71	104,310
1964	3,385	25.1	85,000	1.63	138,550
1965	3,240	24.4	79,000	1.65	130,350
1966	3,255	24.3	79,000	1.78	140,620
1967	3,520	25.6	90,000	1.64	147,600
1968[R]	3,400	26.8	91,000	1.31	119,210
1969	2,500	25.6	64,000	1.24	79,360
1970	1,400	21.8	30,500	1.42	43,310
1971	2,519	29.4	74,000	1.37	101,380
1972	2,600	26.5	69,000	1.86	128,340
1973	3,000	25.7	77,000	4.30	331,100
1974	2,800	21.1	59,000	4.00	236,000
1975	3,100	25.2	78,000	3.53	275,340
1976	3,800	27.1	103,000	2.80	288,400
1977	3,200	31.6	101,000	2.67	269,670
1978	3,400	30.6	104,000	3.61	375,440
1979[R]	3,000	25.0	75,000	4.62	346,500
1980[R]	3,300	21.2	70,000	5.52	386,400
1981[R]	3,900	31.3	122,200	4.75	578,720
1982[R]	4,000	34.0	136,000	4.48	610,660
1983[R]	4,600	27.2	125,300	4.74	593,340
1984[R]	4,450	30.9	137,500	4.68	643,680
1985[R]	4,800	40.0	192,000	3.95	757,770
1986[R]	4,950	33.2	164,500	3.05	501,480
1987[R]	4,850	29.9	145,000	2.69	390,700
1988[R]	4,820	18.3	88,200	4.71	415,360
1989[R]	5,175	28.9	149,300	4.06	605,400
1990	5,430	39.7	215,500	2.97	639,310

TABLE 65: Historical Production and Value of Oats

Year	Harvested For Grain (000 hectares)	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956	789	1 720	1 357 000	34.00	45 760
1957	607	1 220	740 000	34.00	24,960
1958	579	1 330	771 000	36.00	28,000
1959	575	1 340	771 000	42.00	32,000
1960	607	1 425	864 000	40.00	34,720
1961	526	705	370 000	41.00	15,120
1962	726	1 890	1 373 000	38.00	52,510
1963	656	1 455	956 000	36.00	34,100
1964	662	1 700	1 126 000	42.00	47,450
1965	617	1 850	1 141 000	46.00	52,540
1966	619	1 595	987 000	49.00	48,000
1967	647	1 575	1 018 000	45.00	45,540
1968	639	1 955	1 249 000	32.00	40,500
1969	619	1 720	1 064 000	35.00	37,260
1970	510	1 600	817 000	37.00	30,210
1971	565	2 075	1 172 000	34.00	40,280
1972	461	1 840	848 000	58.00	49,500
1973	526	1 850	972 000	106.00	102,690
1974	486	1 365	633 000	99.00	65,360
1975	445	1 735	771 000	93.00	72,000
1976	506	1 860	941 000	73.00	68,930
1977	425	2 105	894 000	64.00	57,420
1978	304	2 080	632 000	64.00	40,590
1979	182	1 690	308 000	89.00	27,400
1980	182	1 525	278 000	119.00	33,120
1981[R]	243	1 910	463 000	105.00	48,620
1982[R]	223	2 350	524 000	81.00	42,400
1983	223	1 800	401 000	110.00	44,110
1984[R]	223	1 940	432 000	109.00	47,090
1985[R]	194	2 550	494 000	92.00	45,450
1986[R]	182	2 540	463 000	81.00	37,500
1987[R]	182	2 290	416 000	104.00	43,260
1988[R]	162	1 380	224 000	153.00	34,270
1989[R]	202	1 680	339 000	87.00	29,490
1990	174	2 350	409 000	65.00	26,580

TABLE 65: Oats Continued

Year	Harvested For Grain (000 acres)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	1,950	45.0	88,000	0.52	45,760
1957	1,500	32.2	48,000	0.52	24,960
1958	1,430	35.1	50,000	0.56	28,000
1959	1,420	35.3	50,000	0.64	32,000
1960	1,500	37.3	56,000	0.62	34,720
1961	1,300	18.5	24,000	0.63	15,120
1962	1,794	49.6	89,000	0.59	52,510
1963	1,620	38.3	62,000	0.55	34,100
1964	1,635	44.6	73,000	0.65	47,450
1965	1,525	48.5	74,000	0.71	52,540
1966	1,530	41.8	64,000	0.75	48,000
1967	1,600	41.2	66,000	0.69	45,540
1968	1,580	51.3	81,000	0.50	40,500
1969	1,530	45.1	69,000	0.54	37,260
1970	1,260	42.1	53,000	0.57	30,210
1971	1,395	54.5	76,000	0.53	40,280
1972	1,140	48.2	55,000	0.90	49,500
1973	1,300	48.5	63,000	1.63	102,690
1974	1,200	35.8	43,000	1.52	65,360
1975	1,100	45.5	50,000	1.44	72,000
1976	1,250	48.8	61,000	1.13	68,930
1977	1,050	55.2	58,000	0.99	57,420
1978	750	54.7	41,000	0.99	40,590
1979	450	44.4	20,000	1.37	27,400
1980	450	40.0	18,000	1.84	33,120
1981[R]	600	50.0	30,000	1.62	48,620
1982[R]	550	61.8	34,000	1.25	42,400
1983	550	47.3	26,000	1.70	44,110
1984[R]	550	50.9	28,000	1.68	47,090
1985[R]	480	66.7	32,000	1.43	45,450
1986[R]	450	66.7	30,000	1.25	37,500
1987[R]	450	60.0	27,000	1.61	43,260
1988[R]	400	36.3	14,500	2.33	34,270
1989[R]	500	44.0	22,000	1.34	29,490
1990	430	61.6	26,500	1.00	26,580

TABLE 66: Historical Production and Value of Barley

Year	Harvested Hectares (000)	Yield Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956	626	1 460	914 000	39.00	35,280
1957	690	1 040	718 000	37.00	26,730
1958	641	1 495	958 000	37.00	35,640
1959	514	1 398	718 000	36.00	25,740
1960	376	1 390	523 000	39.00	20,160
1961	265	740	196 000	48.00	9,450
1962	255	1 790	457 000	44.00	20,160
1963	236	1 475	348 000	45.00	15,520
1964	201	1 730	348 000	48.00	16,800
1965	243	1 970	479 000	48.00	23,100
1966	354	1 725	610 000	50.00	30,800
1967	393	1 825	718 000	41.00	29,370
1968	473	1 980	936 000	36.00	33,970
1969	486	1 880	914 000	32.00	28,980
1970	607	1 830	1 110 000	34.00	37,740
1971	830	2 465	2 047 000	32.00	65,800
1972	850	2 180	1 851 000	58.00	107,100
1973	850	2 125	1 807 000	115.00	208,330
1974	728	1 585	1 154 000	102.00	117,600
1975	607	1 830	1 110 000	105.00	116,280
1976	647	2 255	1 459 000	92.00	134,000
1977	769	2 660	2 047 000	76.00	155,100
1978	708	2 615	1 851 000	78.00	143,650
1979	587	2 150	1 263 000	103.00	129,920
1980	809	1 940	1 568 000	137.00	214,560
1981[R]	951	2 450	2 330 000	119.00	277,300
1982[R]	809	2 930	2 373 000	91.00	215,940
1983[R]	708	2 240	1 589 000	120.00	190,680
1984[R]	728	2 660	1 938 000	121.00	234,500
1985[R]	749	3 370	2 526 000	99.00	250,070
1986[R]	627	2 950	1 851 000	78.00	144,380
1987[R]	688	2 820	1 938 000	71.00	137,600
1988[R]	567	1 920	1 089 000	128.00	139,390
1989[R]	647	2 390	1 546 000	115.00	177,790
1990	627	3 210	2 014 000	90.00	181,260

TABLE 66: Barley Continued

Year	Harvested Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	1,548	26.9	42,000	0.84	35,280
1957	1,704	19.4	33,000	0.81	26,730
1958	1,584	27.8	44,000	0.81	35,640
1959	1,270	25.9	33,000	0.78	25,740
1960	930	26.1	24,000	0.84	20,160
1961	655	13.7	9,000	1.05	9,450
1962	629	33.4	21,000	0.96	20,160
1963	584	27.4	16,000	0.97	15,520
1964	497	32.2	16,000	1.05	16,800
1965	601	36.6	22,000	1.05	23,100
1966	875	32.0	28,000	1.10	30,800
1967	970	34.0	33,000	0.89	29,370
1968	1,170	36.8	43,000	0.79	33,970
1969	1,200	35.0	42,000	0.69	28,980
1970	1,500	34.0	51,000	0.74	37,740
1971	2,052	45.8	94,000	0.70	65,800
1972	2,100	40.5	85,000	1.26	107,100
1973	2,100	39.5	83,000	2.51	208,330
1974	1,800	29.4	53,000	2.22	117,600
1975	1,500	34.0	51,000	2.28	116,280
1976	1,600	41.9	67,000	2.00	134,000
1977	1,900	49.5	94,000	1.65	155,100
1978	1,750	48.6	85,000	1.69	143,650
1979	1,450	40.0	58,000	2.24	129,920
1980	2,000	36.0	72,000	2.98	214,560
1981[R]	2,350	45.5	107,000	2.59	277,300
1982[R]	2,000	54.5	109,000	1.98	215,940
1983	1,750	41.7	73,000	2.61	190,680
1984[R]	1,800	49.4	89,000	2.63	234,500
1985[R]	1,850	62.7	116,000	2.10	250,070
1986[R]	1,550	54.8	85,000	1.69	144,380
1987[R]	1,700	52.4	89,000	1.55	137,600
1988[R]	1,400	35.7	50,000	2.80	139,390
1989[R]	1,600	44.4	71,000	2.51	177,790
1990	1,550	59.7	92,500	1.96	181,260

TABLE 67: Historical Production and Value of All Rye

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956	27 800	990	27.5	39.00	1,067
1957	29 900	1 020	30.5	35.00	1,056
1958	28 600	1 050	30.0	34.00	1,020
1959	34 000	1 245	42.3	35.00	1,461
1960	33 800	1 240	41.9	34.00	1,444
1961	31 800	705	22.4	43.00	957
1962	48 200	1 585	76.5	41.00	3,150
1963	38 200	1 395	53.3	49.00	2,625
1964	54 200	1 315	71.3	41.00	2,940
1965	54 200	1 410	76.5	41.00	3,120
1966	40 200	1 525	61.4	42.00	2,592
1967	57 400	1 175	67.4	43.00	2,880
1968	48 400	1 310	63.5	39.00	2,500
1969	66 200	1 140	75.5	34.00	2,573
1970	52 800	1 365	72.0	34.00	2,469
1971	51 600	1 625	83.8	29.00	2,460
1972	32 600	1 435	46.8	51.00	2,397
1973	32 800	1 650	54.1	105.00	5,684
1974	40 800	1 545	63.0	89.00	5,625
1975	47 800	1 590	76.0	99.00	7,500
1976[R]	36 800	1 855	68.3	84.00	5,750
1977	44 800	1 880	84.3	86.00	7,190
1978[R]	50 800	1 955	99.4	103.00	10,220
1979[R]	50 400	1 580	79.6	145.00	11,590
1980[R]	60 800	1 235	75.0	171.00	12,760
1981[R]	76 400	2 290	175.1	148.00	25,910
1982[R]	92 800	2 300	213.1	87.00	18,540
1983[R]	85 000	1 920	163.0	107.00	17,440
1984[R]	88 600	2 210	195.8	93.00	18,210
1985[R]	78 200	2 140	167.3	66.00	11,040
1986[R]	31 000	1 960	60.9	61.00	3,710
1987[R]	26 300	1 750	45.7	86.00	3,930
1988[R]	48 600	1 200	58.4	105.00	6,130
1989[R]	93 100	2 130	198.0	78.00	15,440
1990	89 000	2 170	193.0	60.00	11,580

TABLE 67: Rye Continued

Year	Harvested Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	68,400	16.1	1,100	0.97	1,067
1957	72,900	16.5	1,200	0.88	1,056
1958	71,500	16.8	1,200	0.85	1,020
1959	83,000	20.0	1,660	0.88	1,461
1960	83,000	20.0	1,660	0.87	1,444
1961	79,500	11.1	886	1.08	957
1962	119,000	25.2	3,000	1.05	3,150
1963	95,000	22.1	2,100	1.25	2,625
1964	133,000	21.1	2,800	1.05	2,940
1965	133,000	22.6	3,000	1.04	3,120
1966	100,500	23.9	2,400	1.08	2,592
1967	141,100	18.9	2,667	1.08	2,880
1968	120,000	20.8	2,500	1.00	2,500
1969	163,000	18.1	2,958	0.87	2,573
1970	130,000	21.8	2,838	0.87	2,469
1971	128,500	25.5	3,280	0.75	2,460
1972	81,500	22.5	1,830	1.31	2,397
1973	82,000	26.2	2,145	2.65	5,684
1974	102,000	24.5	2,500	2.25	5,625
1975	117,000	25.6	3,000	2.50	7,500
1976[R]	92,000	29.3	2,700	2.13	5,750
1977[R]	110,000	30.0	3,300	2.18	7,190
1978[R]	125,000	31.2	3,900	2.62	10,220
1979[R]	125,000	25.2	3,150	3.68	11,590
1980[R]	150,000	19.6	2,940	4.34	12,760
1981[R]	190,000	36.3	6,900	3.76	25,910
1982[R]	230,000	36.5	8,400	2.21	18,540
1983[R]	210,000	30.6	6,420	2.72	17,440
1984[R]	220,000	35.0	7,710	2.36	18,210
1985[R]	200,000	33.8	6,590	1.68	11,040
1986[R]	76,800	31.3	2,400	1.55	3,710
1987[R]	65,000	27.7	1,800	2.18	3,930
1988[R]	120,000	19.2	2,300	2.67	6,130
1989[R]	230,000	33.9	7,800	1.98	15,440
1990	220,000	34.5	7,600	1.52	11,580

TABLE 68: Historical Production and Value of Mixed Grains

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956	27 100	1 765	47 800	31.00	1,499
1957	29 300	1 390	40 800	30.00	1,220
1958	44 900	1 545	69 400	32.00	2,244
1959	55 000	1 555	85 500	36.00	3,058
1960	51 000	1 600	81 500	37.00	2,996
1961	63 500	920	58 300	45.00	2,600
1962	50 200	2 035	102 100	40.00	4,100
1963	51 000	1 560	79 600	37.00	2,964
1964	51 000	1 960	100 000	41.00	4,116
1965	59 100	2 075	122 500	42.00	5,100
1966	74 500	1 875	139 700	47.00	6,503
1967	72 000	1 900	136 800	44.00	6,030
1968	72 000	2 185	157 200	38.00	5,929
1969	76 900	1 885	144 900	31.00	4,544
1970	101 200	1 855	187 800	35.00	6,532
1971	114 900	2 400	275 600	32.00	8,775
1972	117 400	2 175	255 100	53.00	13,500
1973	119 400	2 135	255 100	101.00	25,875
1974	80 900	1 515	122 500	93.00	11,400
1975	80 900	1 890	153 100	91.00	13,950
1976	68 800	2 045	140 800	77.00	10,833
1977	68 800	2 375	163 300	80.00	13,040
1978	64 700	2 395	155 100	83.00	12,920
1979	56 700	2 125	120 400	105.00	12,626
1980	48 600	1 805	87 800	130.00	11,395
1981[R]	48 600	2 265	110 200	115.00	12,670
1982[R]	48 600	2 685	130 600	89.00	11,620
1983[R]	48 600	2 015	98 000	115.00	11,270
1984[R]	44 500	2 330	104 000	127.00	13,210
1985[R]	40 500	2 750	112 000	92.00	10,300
1986[R]	32 400	2 530	81 600	68.00	5,550
1987[R]	32 400	2 530	81 600	72.00	5,880
1988[R]	28 300	1 520	42 900	121.00	5,190
1989[R]	28 300	2 160	61 200	100.00	6,120
1990	32 400	2 400	77 600	80.00	6,210

TABLE 68: Mixed Grains Continued

Year	Harvested Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	66,900	35.0	2,342	0.64	1,499
1957	72,300	27.7	2,000	0.61	1,220
1958	111,000	30.6	3,400	0.66	2,244
1959	136,000	30.8	4,189	0.73	3,058
1960	126,000	31.7	3,994	0.75	2,996
1961	157,000	18.2	2,857	0.91	2,600
1962	124,000	40.3	5,000	0.82	4,100
1963	126,000	31.0	3,900	0.76	2,964
1964	126,000	38.9	4,900	0.84	4,116
1965	146,000	41.1	6,000	0.85	5,100
1966	184,000	37.2	6,845	0.95	6,503
1967	178,000	37.6	6,700	0.90	6,030
1968	178,000	43.3	7,700	0.77	5,929
1969	190,000	37.4	7,100	0.64	4,544
1970	250,000	36.8	9,200	0.71	6,532
1971	284,000	47.5	13,500	0.65	8,775
1972	290,000	43.1	12,500	1.08	13,500
1973	295,000	42.4	12,500	2.07	25,875
1974	200,000	30.0	6,000	1.90	11,400
1975	200,000	37.5	7,500	1.86	13,950
1976	170,000	40.6	6,900	1.57	10,833
1977	170,000	47.1	8,000	1.63	13,040
1978	160,000	47.5	7,600	1.70	12,920
1979	140,000	42.1	5,900	2.14	12,626
1980	120,000	35.8	4,300	2.65	11,395
1981[R]	120,000	45.0	5,400	2.35	12,670
1982[R]	120,000	53.3	6,400	1.82	11,620
1983[R]	120,000	40.0	4,800	2.35	11,270
1984[R]	110,000	46.4	5,100	2.59	13,210
1985[R]	100,000	55.0	5,500	1.88	10,300
1986[R]	80,000	50.0	4,000	1.39	5,550
1987[R]	80,000	50.0	4,000	1.47	5,880
1988[R]	70,000	30.0	2,100	2.47	5,190
1989[R]	70,000	42.9	3,000	2.04	6,120
1990	80,000	47.5	3,800	1.63	6,210

TABLE 69: Historical Production and Value of Grain Corn

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956	2 900	1 550	4 500	48.00	214
1957	3 200	1 595	5 100	47.00	240
1958	2 800	1 570	4 400	46.00	203
1959	2 000	1 900	3 800	37.00	142
1960	2 200	2 045	4 500	43.00	193
1961	1 700	1 825	3 100	45.00	141
1962	1 300	2 615	3 400	45.00	152
1963	1 800	2 555	4 600	49.00	225
1964	2 000	1 600	3 200	47.00	150
1965	2 400	1 585	3 800	49.00	188
1966	1 200	2 750	3 300	58.00	191
1967	2 200	3 180	7 000	59.00	412
1968	1 000	2 500	2 500	53.00	132
1969	1 200	2 085	2 500	54.00	135
1970	1 400	2 570	3 600	58.00	210
1971	3 700	3 025	11 200	49.00	550
1972	5 300	3 360	17 800	61.00	1,085
1973	6 500	3 445	22 400	120.00	2,684
1974	2 000	2 400	4 800	145.00	697
1975	4 900	3 900	19 100	120.00	2,288
1976	6 900	4 230	29 200	119.00	3,473
1977	9 700	4 060	39 400	103.00	4,061
1978	35 600	4 140	147 300	110.00	16,240
1979	52 600	3 765	198 100	124.00	24,570
1980	56 700	3 360	190 500	134.00	25,500
1981[R]	91 100	4 740	431 800	106.00	45,770
1982[R]	80 900	3 140	254 000	105.00	26,670
1983	77 000	2 830	218 000	130.00	28,340
1984	73 000	3 230	236 000	140.00	33,040
1985	40 500	1 880	76 000	120.00	9,120
1986[R]	13 800	4 420	61 000	92.00	5,610
1987[R]	20 200	5 400	109 000	92.00	10,030
1988[R]	32 400	3 210	104 000	133.00	13,830
1989[R]	34 400	3 170	109 000	122.00	13,300
1990	32 400	4 780	155 000	110.00	17,050

TABLE 69: Grain Corn Continued

Year	Harvested Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	7,100	25.0	178	1.20	214
1957	8,000	25.0	200	1.20	240
1958	7,000	25.0	175	1.16	203
1959	5,000	30.0	150	0.95	142
1960	5,500	32.5	179	1.08	193
1961	4,100	30.0	123	1.15	141
1962	3,300	40.0	132	1.15	152
1963	4,500	40.0	180	1.25	225
1964	5,000	25.0	125	1.20	150
1965	6,000	25.0	150	1.25	188
1966	2,900	44.8	130	1.47	191
1967	5,500	50.0	275	1.50	412
1968	2,500	40.0	100	1.32	132
1969	3,000	33.3	100	1.35	135
1970	3,500	40.0	140	1.50	210
1971	9,100	48.4	440	1.25	550
1972	13,000	53.8	700	1.55	1,085
1973	16,000	55.0	880	3.05	2,684
1974	5,000	38.0	190	3.67	697
1975	12,000	62.5	750	3.05	2,288
1976	17,000	67.6	1,150	3.02	3,473
1977	24,000	64.6	1,550	2.62	4,061
1978	88,000	65.9	5,800	2.80	16,240
1979	130,000	60.0	7,800	3.15	24,570
1980	140,000	53.6	7,500	3.40	25,500
1981[R]	225,000	75.6	17,000	2.69	45,770
1982[R]	200,000	50.0	10,000	2.67	26,670
1983	190,000	45.3	8,600	3.30	28,340
1984[R]	180,000	51.7	9,300	3.55	33,040
1985	100,000	30.0	3,000	3.04	9,120
1986[R]	34,000	70.6	2,400	2.34	5,610
1987[R]	50,000	86.0	4,300	2.33	10,030
1988[R]	80,000	51.3	4,100	3.37	13,830
1989[R]	85,000	50.6	4,300	3.10	13,300
1990	80,000	76.3	6,100	2.79	17,050

TABLE 70: Historical Production Value Summary of Oilseeds

Year	Canola	Flaxseed	Sunflower Seed	TOTAL OILSEEDS
		- thousand dollars -		
1956	869	20,720	755	22,344
1957	516	8,680	540	9,736
1958	365	12,314	1,006	13,685
1959	360	13,984	614	14,958
1960	960	17,600	1,008	19,568
1961	648	14,190	961	15,799
1962	1,015	23,400	845	25,260
1963	1,900	26,505	1,547	29,952
1964	3,969	31,270	1,260	36,499
1965	5,880	43,578	1,584	51,042
1966	5,145	28,350	1,680	35,175
1967	4,416	17,556	1,584	23,556
1968	3,572	29,536	1,200	34,308
1969	8,400	26,214	1,870	36,484
1970	16,704	25,530	3,250	45,484
1971	25,800	12,862	7,091	45,753
1972	26,350	24,190	10,640	61,180
1973	44,968	72,580	8,750	126,298
1974	60,095	63,096	3,731	126,922
1975	63,875	55,020	6,600	125,495
1976	27,540	44,160	5,300	77,000
1977	80,640	68,250	20,125	169,015
1978	161,925	85,125	27,940	274,990
1979	151,500	124,425	50,600	326,525
1980	83,720	69,510	35,000	188,230
1981	86,650	84,500	41,980	213,130
1982	103,790	106,600	17,290	277,680
1983	152,050	95,930	12,160	260,140
1984	190,940	139,160	28,580	358,680
1985	167,000	148,140	13,570	328,710
1986	113,870	98,960	6,920	219,750
1987	144,500	79,980	8,990	233,470
1988	183,000	71,680	8,090	262,770
1989	105,740	73,150	15,940	194,830
1990	127,240	94,950	24,510	246,700

TABLE 71: Historical Production and Value of Canola (Rapeseed)

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne $	Total ($000)
1956	11 800	930	11 000	79.00	869
1957	11 100	700	7 800	66.00	516
1958	8 500	670	5 700	64.00	365
1959	4 900	840	4 100	88.00	360
1960	13 400	815	10 900	88.00	960
1961	11 900	690	8 200	79.00	648
1962	13 000	1 015	13 200	77.00	1,015
1963	18 200	945	17 200	110.00	1,900
1964	34 000	980	33 300	119.00	3,969
1965	58 700	925	54 400	108.00	5,880
1966	68 800	690	47 600	108.00	5,145
1967	58 700	890	52 200	85.00	4,416
1968	36 800	1 170	43 100	83.00	3,572
1969	79 300	1 000	79 400	106.00	8,400
1970	161 900	1 010	163 300	102.00	16,704
1971	235 100	1 160	272 200	95.00	25,800
1972	190 200	1 015	192 800	137.00	26,350
1973	161 900	1 080	174 600	258.00	44,968
1974	202 300	955	192 800	312.00	60,095
1975	303 500	935	283 500	225.00	63,875
1976[R]	101 200	1 010	102 100	270.00	27,540
1977[R]	202 300	1 435	290 300	278.00	80,640
1978	424 900	1 360	578 300	280.00	161,925
1979[R]	546 300	1 040	567 000	267.00	151,500
1980[R]	323 700	910	294 800	284.00	83,720
1981[R]	242 800	1 260	306 200	283.00	86,650
1982[R]	344 000	1 160	399 200	260.00	103,790
1983	384 000	1 030	397 000	383.00	152,050
1984	486 000	1 120	544 000	351.00	190,940
1985[R]	405 000	1 570	635 000	263.00	167,000
1986	405 000	1 430	578 000	197.00	113,870
1987[R]	405 000	1 440	585 000	247.00	144,500
1988[R]	627 000	980	612 000	299.00	183,000
1989[R]	465 000	860	399 000	265.00	105,740
1990	384 000	1 300	499 000	255.00	127,240

TABLE 71: Canola Continued

Year	Harvested Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	29,100	16.6	483	1.80	869
1957	27,500	12.5	344	1.50	516
1958	21,000	12.0	252	1.45	365
1959	12,000	15.0	180	2.00	360
1960	33,000	14.5	480	2.00	960
1961	29,300	12.3	360	1.80	648
1962	32,200	18.0	580	1.75	1,015
1963	45,000	16.9	760	2.50	1,900
1964	84,000	17.5	1,470	2.70	3,969
1965	145,000	16.6	2,400	2.45	5,880
1966	170,000	12.4	2,100	2.45	5,145
1967	145,000	15.9	2,300	1.92	4,416
1968	91,000	20.9	1,900	1.88	3,572
1969	196,000	17.9	3,500	2.40	8,400
1970	400,000	18.0	7,200	2.32	16,704
1971	581,000	20.7	12,000	2.15	25,800
1972	470,000	18.1	8,500	3.10	26,350
1973	400,000	19.2	7,700	5.84	44,968
1974	500,000	17.0	8,500	7.07	60,095
1975	750,000	16.7	12,500	5.11	63,875
1976[R]	250,000	18.0	4,500	6.12	27,540
1977	500,000	25.6	12,800	6.30	80,640
1978	1,050,000	24.3	25,500	6.35	161,925
1979	1,350,000	18.5	25,000	6.06	151,500
1980[R]	800,000	16.2	13,000	6.44	83,720
1981[R]	600,000	22.5	13,500	6.42	86,650
1982[R]	850,000	20.7	17,600	5.90	103,790
1983	950,000	18.4	17,500	8.69	152,050
1984	1,200,000	20.0	24,000	7.96	190,940
1985[R]	1,000,000	28.0	28,000	5.96	167,000
1986[R]	1,000,000	25.5	25,500	4.47	113,870
1987[R]	1,000,000	25.8	25,800	5.60	144,500
1988[R]	1,550,000	17.4	27,000	6.78	183,000
1989[R]	1,150,000	15.3	17,600	6.01	105,740
1990	950,000	23.2	22,000	5.78	127,240

TABLE 72: Historical Production and Value of Flaxseed

Year	Harvested Hectares (000)	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value	
				Price Per Tonne $	Total ($000)
1956	319	635	203.2	102.00	20,720
1957	350	255	88.9	98.00	8,680
1958	223	535	119.4	103.00	12,314
1959	233	500	116.8	120.00	13,984
1960	286	570	162.6	108.00	17,600
1961	303	360	109.2	130.00	14,190
1962	270	735	198.1	118.00	23,400
1963	332	710	236.2	112.00	26,505
1964	415	650	269.3	116.00	31,270
1965	546	755	411.5	106.00	43,578
1966[R]	448	595	266.7	106.00	28,350
1967	267	540	144.8	121.00	17,556
1968	332	795	264.2	112.00	29,536
1969	445	580	259.1	101.00	26,214
1970	445	655	292.1	87.00	25,530
1971	229	655	149.9	86.00	12,862
1972	202	740	149.9	161.00	24,190
1973	243	795	193.0	376.00	72,580
1974	283	590	167.6	376.00	63,096
1975	304	700	213.4	258.00	55,020
1976[R]	212	755	160.0	276.00	44,160
1977	304	1 085	330.2	207.00	68,250
1978	304	1 045	317.5	268.00	85,125
1979	506	880	444.5	280.00	124,425
1980[R]	324	650	210.8	331.00	69,510
1981[R]	283	925	261.6	323.00	84,500
1982	364	1 200	436.9	244.00	106,600
1983[R]	304	980	297.0	323.00	95,930
1984	425	1 030	439.0	317.00	139,160
1985	425	1 320	559.0	265.00	148,140
1986	417	1 370	572.0	173.00	98,960
1987[R]	324	1 250	406.0	197.00	79,980
1988[R]	283	700	198.0	362.00	71,680
1989[R]	283	780	221.0	331.00	73,150
1990	324	1 300	422.0	225.00	94,950

TABLE 72: Flaxseed Continued

Year	Harvested Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	789	10.1	8,000	2.59	20,720
1957	865	4.0	3,500	2.48	8,680
1958	550	8.6	4,700	2.62	12,314
1959	575	8.0	4,600	3.04	13,984
1960	707	9.1	6,400	2.75	17,600
1961	748	5.7	4,300	3.30	14,190
1962	667	11.7	7,800	3.00	23,400
1963	820	11.3	9,300	2.85	26,505
1964	1,025	10.3	10,600	2.95	31,270
1965	1,350	12.0	16,200	2.69	43,578
1966	1,107	9.5	10,500	2.70	28,350
1967	660	8.6	5,700	3.08	17,556
1968	820	12.7	10,400	2.84	29,536
1969	1,100	9.3	10,200	2.57	26,214
1970	1,100	10.5	11,500	2.22	25,530
1971	566	10.4	5,900	2.18	12,862
1972	500	11.8	5,900	4.10	24,190
1973	600	12.7	7,600	9.55	72,580
1974	700	9.4	6,600	9.56	63,096
1975	750	11.2	8,400	6.55	55,020
1976[R]	525	12.0	6,300	7.01	44,160
1977	750	17.3	13,000	5.25	68,250
1978	750	16.7	12,500	6.81	85,125
1979	1,250	14.0	17,500	7.11	124,425
1980[R]	800	10.4	8,300	8.41	69,510
1981[R]	700	14.7	10,300	8.20	84,500
1982	900	19.1	17,200	6.20	106,600
1983	750	15.6	11,700	8.20	95,930
1984	1,050	16.5	17,300	8.05	139,160
1985[R]	1,050	21.0	22,000	6.73	148,140
1986[R]	1,030	21.8	22,500	4.39	98,960
1987[R]	800	20.0	16,000	5.00	79,980
1988[R]	700	11.1	7,800	9.20	71,680
1989[R]	700	12.4	8,700	8.41	73,150
1990	800	20.8	16,600	5.72	94,950

TABLE 73: Historical Production and Value of Sunflower Seed

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne $	Total ($000)
1956	13 354	596	7 963	94.81	755
1957	12 140	448	5 443	99.21	540
1958	18 211	482	8 777	114.62	1,006
1959	12 900	545	7 000	88.00	614
1960	11 300	905	10 200	99.00	1,008
1961	12 300	790	9 700	99.00	961
1962	8 300	845	7 000	121.00	845
1963	15 000	1 060	15 900	97.00	1,547
1964	19 400	590	11 400	111.00	1,260
1965	19 400	620	12 000	132.00	1,584
1966	17 400	730	12 700	132.00	1,680
1967	17 800	900	16 000	99.00	1,584
1968	15 000	725	10 900	110.00	1,200
1969	19 400	795	15 400	121.00	1,870
1970	26 300	895	23 600	138.00	3,250
1971	62 700	840	52 700	135.00	7,091
1972	76 900	895	68 900	154.00	10,640
1973	50 600	785	39 700	220.00	8,750
1974	8 500	975	8 300	450.00	3,731
1975	25 100	1 190	29 900	221.00	6,600
1976	20 200	1 190	24 000	221.00	5,300
1977	66 800	1 190	79 400	253.00	20,125
1978	87 000	1 325	115 200	243.00	27,940
1979	153 800	1 355	208 700	242.00	50,600
1980	129 500	1 225	158 800	220.00	35,000
1981[R]	109 300	1 455	159 000	264.00	41,980
1982[R]	70 800	1 235	87 300	198.00	17,290
1983[R]	36 400	1 120	40 800	298.00	12,160
1984[R]	68 800	1 150	79 400	360.00	28,580
1985[R]	48 600	1 210	59 000	230.00	13,570
1986[R]	23 100	1 430	33 100	209.00	6,920
1987[R]	28 300	1 570	44 500	202.00	8,990
1988[R]	34 400	1 240	42 600	190.00	8,090
1989[R]	46 500	1 350	63 000	253.00	15,940
1990	58 700	1 780	104 300	235.00	24,510

TABLE 73: Sunflower Seed Continued

Year	Harvested Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1956	33,000	532	17,556	.043	755
1957	30,000	400	12,000	.045	540
1958	45,000	430	19,350	.052	1,006
1959	32,000	480	15,360	.040	614
1960	28,000	800	22,400	.045	1,008
1961	30,500	700	21,350	.045	961
1962	20,500	749	15,360	.055	845
1963	37,000	950	35,150	.044	1,547
1964	48,000	525	25,200	.050	1,260
1965	48,000	550	26,400	.060	1,584
1966	43,100	650	28,000	.060	1,680
1967	44,000	800	35,200	.045	1,584
1968	37,000	650	24,000	.050	1,200
1969	48,000	708	34,000	.055	1,870
1970	65,000	800	52,000	.0625	3,250
1971	155,000	750	116,250	.061	7,091
1972	190,000	800	152,000	.070	10,640
1973	125,000	700	87,500	.100	8,750
1974	21,000	867	18,200	.205	3,731
1975	62,000	1,065	66,000	.100	6,600
1976	50,000	1,060	53,000	.100	5,300
1977	165,000	1,061	175,000	.115	20,125
1978	215,000	1,182	254,000	.110	27,940
1979	380,000	1,211	460,000	.110	50,600
1980	320,000	1,094	350,000	.100	35,000
1981[R]	270,000	1,300	350,000	.120	41,980
1982[R]	175,000	1,100	192,500	.090	17,290
1983[R]	90,000	1,000	90,000	.135	12,160
1984[R]	170,000	1,030	175,000	.163	28,580
1985[R]	120,000	1,080	130,000	.100	13,570
1986[R]	57,000	1,280	73,000	.090	6,920
1987[R]	70,000	1,400	98,000	.090	8,990
1988[R]	85,000	1,110	94,000	.090	8,090
1989[R]	115,000	1,210	139,000	.115	15,940
1990	145,000	1,590	230,000	.107	24,310

TABLE 74: Historical Production Value Summary of Other Crops
- continued on next page

Year	Buckwheat	Canary Seed	Dry Beans	Dry Peas	Fababeans	Lentils
			- thousand dollars -			
1956	525			1,752		
1957	341			1,260		
1958	370			1,456		
1959	135			1,117		
1960	234			1,534		
1961	164			1,470		
1962	336			1,100		
1963	435	26	10	1,610		
1964	400	NA	NA	2,578		
1965	210	9	10	1,699		
1966	629	60	0	1,645		
1967	1,050	NA	NA	1,470		
1968	1,034	NA	NA	1,072		
1969	1,138	270	10	1,402		
1970	1,960	130	20	1,897		
1971	2,400	70	120	2,100		
1972	1,610	120	260	1,900	300	110
1973	3,375	270	390	4,620	1,700	120
1974	3,402	110	120	5,246	100	190
1975	1,462	360	340	3,375	200	40
1976	1,616	980	870	4,702	100	40
1977	6,750	1,820	260	7,425	400	600
1978	12,150	1,160	240	7,790	1,000	270
1979	4,380	900	720	8,265	1,500	2,070
1980	5,000	2,230	1,510	11,664	2,200	4,620
1981	17,230	5,250	4,170	19,720	2,100	7,550
1982	6,910	4,560	3,060	15,750	1,500	7,000
1983	7,648	2,380	1,930	14,960	1,700	3,500
1984	4,520	3,000	1,670	18,520	1,400	5,400
1985	3,680	3,000	2,990	21,310	1,000	7,100
1986	5,010	6,620	6,750	19,570	2,000	8,320
1987	5,010	2,210	5,800	27,940	2,900	12,330
1988	3,150	2,210	5,280	16,960	1,100	2,270
1989	5,022	6,000	3,610	14,750	1,000	5,940
1990	4,310	4,510	9,100	14,520	1,100	17,470

TABLE 74: Other Crops Continued

Year	Mustard Seed	Wild Rice	Fodder Corn	Tame Hay	Sugar Beets	TOTAL OTHER CROPS
			- thousand dollars -			
1956	15		588	12,680	3,855	19,415
1957	6		540	12,750	2,742	17,639
1958	15		825	14,011	3,233	19,910
1959	7		1,022	22,020	2,289	26,590
1960	15		1,001	20,717	3,547	27,048
1961	184		1,188	15,820	2,430	21,256
1962	482		1,820	29,260	3,976	36,974
1963	1,010		2,114	28,006	5,791	39,001
1964	435		1,470	23,440	4,034	32,357
1965	1,214		1,834	26,928	4,502	36,406
1966	882		1,596	34,617	4,106	43,535
1967	1,096		980	28,000	4,036	36,632
1968	2,750		1,176	29,600	4,767	40,399
1969	1,020		1,099	31,350	5,937	42,226
1970	760	60	840	33,450	3,700	42,817
1971	312	250	490	34,650	6,926	47,318
1972	562	361	1,600	40,000	7,301	54,124
1973	2,240	439	1,960	66,000	9,803	90,937
1974	5,550	110	2,940	84,000	11,281	113,049
1975	1,812	128	4,350	92,500	14,374	118,941
1976	1,613	351	4,200	97,968	11,918	124,358
1977	3,780	1,512	5,250	97,500	12,523	137,820
1978	7,040	1,071	6,800	107,010	14,230	158,761
1979	2,100	1,273	7,560	117,936	19,465	166,169
1980	5,400	629	12,180	95,250	13,057	153,740
1981	7,300	706	9,560	136,080	16,782	226,428
1982	2,570	461	12,020	124,740	19,518	198,089
1983	4,090	497	7,700	119,740	13,229	177,374
1984	4,800	1,135	6,860	129,400	11,286	187,993
1985	5,250	677	7,370	136,720	12,967	202,064
1986	4,940	770	7,620	186,120	15,149	264,869
1987	2,000	940	4,390	139,340	17,785	220,645
1988	1,810	1,017	4,500	117,230	10,055	165,582
1989	2,810	900	5,680	142,240	14,839	202,791
1990	4,920	935	5,710	141,860	14,060	218,495

TABLE 75: Historical Production and Value of Buckwheat

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956[R]	25 000	540	13 500	39.00	525
1957[R]	14 200	700	9 900	34.45	341
1958	12 100	740	8 900	41.35	370
1959[R]	6 100	540	3 300	41.35	135
1960[R]	6 100	835	5 100	46.00	234
1961[R]	5 300	585	3 100	53.00	164
1962	4 000	1 140	4 550	74.00	336
1963	6 100	1 075	6 550	66.00	435
1964	10 500	830	8 700	46.00	400
1965	8 100	535	4 350	48.00	210
1966	9 200	805	7 400	85.00	629
1967	18 200	630	11 450	92.00	1,050
1968	20 200	570	11 550	90.00	1,034
1969	20 200	700	14 150	80.00	1,138
1970	32 400	940	30 500	64.00	1,960
1971	32 400	1 075	34 850	69.00	2,400
1972	30 400	825	25 050	64.00	1,610
1973	26 300	745	19 600	172.00	3,375
1974	16 200	940	15 240	223.00	3,402
1975	10 100	925	9 350	156.00	1,462
1976[R]	17 800	490	8 700	186.00	1,616
1977	32 400	1 010	32 650	207.00	6,750
1978	48 600	1 210	58 800	207.00	12,150
1979	54 600	400	21 750	201.00	4,380
1980	39 700	440	17 400	287.00	5,000
1981[R]	50 600	900	45 700	377.00	17,230
1982[R]	46 500	470	21 800	317.00	6,910
1983[R]	36 400	660	23 900	320.00	7,648
1984	29 300	440	13 100	345.00	4,520
1985[R]	12 100	880	10 700	344.00	3,680
1986	21 900	920	20 200	248.00	5,010
1987[R]	16 200	1 250	20 200	248.00	5,010
1988[R]	20 200	610	12 400	254.00	3,150
1989	20 200	720	14 600	344.00	5,022
1990	24 000	1 090	26 100	165.00	4,310

TABLE 75: Buckwheat Continued

Year	Harvested Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	61,800	10.0	618	0.85	525
1957	35,000	13.0	455	0.75	341
1958	30,000	13.7	411	0.90	370
1959	15,000	10.0	150	0.90	135
1960	15,000	15.6	234	1.00	234
1961	13,200	10.8	143	1.15	164
1962	10,000	21.0	210	1.60	336
1963	15,000	20.0	300	1.45	435
1964	26,000	15.4	400	1.00	400
1965	20,000	10.0	200	1.05	210
1966	22,700	15.0	340	1.85	629
1967	45,000	11.7	525	2.00	1,050
1968	50,000	10.6	530	1.95	1,034
1969	50,000	13.0	650	1.75	1,138
1970	80,000	17.5	1,400	1.40	1,960
1971	80,000	20.0	1,600	1.50	2,400
1972	75,000	15.3	1,150	1.40	1,610
1973	65,000	13.8	900	3.75	3,375
1974	40,000	17.5	700	4.86	3,402
1975	25,000	17.2	430	3.40	1,462
1976	44,000	9.1	400	4.04	1,616
1977	80,000	18.8	1,500	4.50	6,750
1978	120,000	22.5	2,700	4.50	12,150
1979	135,000	7.4	1,000	4.38	4,380
1980	98,000	8.2	800	6.25	5,000
1981[R]	125,000	16.8	2,100	8.21	17,230
1982[R]	115,000	8.7	1,000	6.90	6,910
1983	90,000	12.2	1,100	6.95	7,648
1984	70,000	8.6	600	7.51	4,520
1985[R]	30,000	16.3	490	7.48	3,680
1986[R]	54,000	17.2	930	5.40	5,010
1987[R]	40,000	23.3	930	5.40	5,010
1988	50,000	11.4	570	5.53	3,150
1989[R]	50,000	13.4	670	7.49	5,022
1990	60,000	20.0	1,200	3.59	4,310

TABLE 76: Historical Production and Value of Canary Seed

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1963	600	560	340	77.00	26
1964	NA	NA	NA	NA	NA
1965	100	673	80	110.00	9
1966	1 000	673	680	88.00	60
1967	NA	NA	NA	NA	NA
1968	NA	NA	NA	NA	NA
1969	2 400	1 009	2 450	110.00	270
1970	2 000	841	1 700	77.00	130
1971	800	1 065	860	77.00	70
1972	1 400	953	1 350	88.00	120
1973	1 800	953	1 740	154.00	270
1974	600	560	360	309.00	110
1975	1 600	841	1 360	265.00	360
1976	3 000	1 121	3 400	287.00	980
1977	6 100	1 233	7 480	243.00	1,820
1978	6 900	953	6 550	176.00	1,160
1979	7 000	729	5 100	176.00	900
1980	10 900	841	9 190	243.00	2,230
1981	14 200	841	11 900	441.00	5,250
1982	19 400	1 065	20 700	220.00	4,560
1983	8 900	1 278	11 400	209.00	2,380
1984	12 100	897	10 900	276.00	3,000
1985	8 100	1 345	10 900	276.00	3,000
1986	23 200	1 233	28 600	231.00	6,620
1987	10 100	1 323	13 400	165.00	2,210
1988	10 100	762	7 700	287.00	2,210
1989	16 200	1 400	22 700	265.00	6,000
1990	14 200	1 500	21 300	212.00	4,510

TABLE 76: Canary Seed Continued

Year	Harvested Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1963	1,500	500	800	0.035	26
1964	NA	NA	NA	NA	NA
1965	300	600	200	0.050	9
1966	2,500	600	1,500	0.040	60
1967	NA	NA	NA	NA	NA
1968	NA	NA	NA	NA	NA
1969	6,000	900	5,400	0.050	270
1970	5,000	750	3,800	0.035	130
1971	2,000	950	1,900	0.035	70
1972	3,500	850	3,000	0.040	120
1973	4,500	850	3,800	0.070	270
1974	1,600	500	800	0.140	110
1975	4,000	750	3,000	0.120	360
1976	7,500	1,000	7,500	0.130	980
1977	15,000	1,100	16,500	0.110	1,820
1978	17,000	850	14,500	0.080	1,160
1979	17,300	650	11,200	0.080	900
1980	27,000	750	20,300	0.110	2,230
1981	35,000	750	26,300	0.200	5,250
1982	48,000	950	45,600	0.100	4,560
1983	22,000	1,140	25,100	0.095	2,380
1984	30,000	800	24,000	0.125	3,000
1985	20,000	1,200	24,000	0.125	3,000
1986	57,300	1,100	63,000	0.105	6,620
1987	25,000	1,180	29,500	0.075	2,210
1988	25,000	680	17,000	0.130	2,210
1989	40,000	1,250	50,000	0.120	6,000
1990	35,000	1,340	47,000	0.096	4,510

TABLE 77: Historical Production and Value of Dry Beans

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1963	40	1 009	40	140.00	10
1964	NA	NA	NA	NA	NA
1965	120	673	80	132.00	10
1966	30	560	10	176.00	0
1967	NA	NA	NA	NA	NA
1968	NA	NA	NA	NA	NA
1969	100	560	80	176.00	10
1970	200	560	140	176.00	20
1971	600	1 233	700	176.00	120
1972	1 200	1 233	1 500	176.00	260
1973	600	1 233	790	496.00	390
1974	500	1 009	490	243.00	120
1975	800	1 121	860	392.00	340
1976	3 000	880	2 620	331.00	870
1977	800	1 009	780	331.00	260
1978	600	1 098	670	357.00	240
1979	1 000	1 524	1 540	467.00	720
1980	2 000	1 211	2 450	617.00	1,510
1981	7 800	863	6 750	617.00	4,170
1982	8 500	1 087	9 240	331.00	3,060
1983	3 000	1 031	3 130	617.00	1,930
1984	2 800	1 233	3 440	485.00	1,670
1985	5 300	1 289	6 780	441.00	2,990
1986	4 800	1 592	7 660	882.00	6,750
1987	8 100	1 625	13 150	441.00	5,800
1988	8 900	841	7 480	705.00	5,280
1989	12 100	498	6 040	595.00	3,610
1990	17 000	1 345	22 860	397.00	9,100

TABLE 77: Dry Beans Continued

Year	Harvested Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1963	100	900	900	0.063	10
1964	NA	NA	NA	NA	NA
1965	300	600	180	0.060	10
1966	100	500	30	0.080	0
1967	NA	NA	NA	NA	NA
1968	NA	NA	NA	NA	NA
1969	400	500	180	0.080	10
1970	600	500	300	0.080	20
1971	1,400	1,100	1,540	0.080	120
1972	3,000	1,100	3,300	0.080	260
1973	1,600	1,100	1,740	0.225	390
1974	1,200	900	1,080	0.110	120
1975	1,900	1,000	1,900	0.178	340
1976	7,400	785	5,770	0.150	870
1977	1,900	900	1,710	0.150	260
1978	1,500	980	1,470	0.162	240
1979	2,500	1,360	3,400	0.212	720
1980	5,000	1,080	5,400	0.280	1,510
1981	19,300	770	14,880	0.280	4,170
1982	21,000	970	20,370	0.150	3,060
1983	7,500	920	6,900	0.280	1,930
1984	6,900	1,100	7,590	0.220	1,670
1985	13,000	1,150	14,950	0.200	2,990
1986	11,900	1,420	16,880	0.400	6,750
1987	20,000	1,450	29,000	0.200	5,800
1988	22,000	750	16,500	0.320	5,280
1989	30,000	444	13,320	0.270	3,610
1990	42,000	1,200	50,400	0.180	9,100

TABLE 78: Historical Production and Value of Dry Peas

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne $	Total ($000)
1956	22 500	1 415	31 800	55.00	1,752
1957	22 700	1 005	22 850	55.00	1,260
1958	21 000	945	19 800	74.00	1,456
1959	19 800	810	16 000	70.00	1,117
1960	16 600	1 255	20 850	74.00	1,534
1961	18 900	1 010	19 050	77.00	1,470
1962	12 900	1 055	13 600	81.00	1,100
1963	15 000	1 270	19 050	85.00	1,610
1964	23 900	1 545	36 950	70.00	2,578
1965	17 200	1 495	25 700	66.00	1,699
1966	18 600	1 070	19 900	83.00	1,645
1967	12 100	1 575	19 050	77.00	1,470
1968	13 400	1 070	14 350	75.00	1,072
1969	21 000	970	20 400	69.00	1,402
1970	24 300	1 140	27 750	68.00	1,897
1971	20 500	1 595	32 650	64.00	2,100
1972	18 200	1 495	27 200	70.00	1,900
1973	14 200	1 610	22 850	202.00	4,620
1974	16 200	1 395	22 600	232.00	5,246
1975	14 200	1 435	20 400	165.00	3,375
1976	15 400	1 750	26 950	174.00	4,702
1977	22 300	1 650	36 750	202.00	7,425
1978	25 500	2 025	51 700	151.00	7,790
1979	28 300	1 825	51 700	160.00	8,265
1980	34 000	1 440	49 000	238.00	11,664
1981[R]	40 500	1 950	78 900	250.00	19,720
1982[R]	44 500	1 830	81 600	193.00	15,750
1983	40 500	1 680	68 000	220.00	14,960
1984[R]	44 500	1 830	81 600	227.00	18,520
1985[R]	40 500	2 490	101 000	211.00	21,310
1986[R]	58 700	1 750	103 000	190.00	19,570
1987[R]	72 800	1 980	144 000	194.00	27,940
1988[R]	72 800	1 080	78 900	215.00	16,960
1989[R]	52 600	1 500	78 900	187.00	14,750
1990	40 500	2 010	81 600	178.00	14,520

TABLE 78: Dry Peas Continued

Year	Harvested Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1956	55,600	21.0	1,168	1.50	1,752
1957	56,000	15.0	840	1.50	1,260
1958	52,000	14.0	728	2.00	1,456
1959	49,000	12.0	588	1.90	1,117
1960	41,000	18.7	767	2.00	1,534
1961	46,700	15.0	700	2.10	1,470
1962	31,800	15.7	500	2.20	1,100
1963	37,000	18.9	700	2.30	1,610
1964	59,000	23.0	1,357	1.90	2,578
1965	42,500	22.2	944	1.80	1,699
1966	46,000	15.9	731	2.25	1,645
1967	30,000	23.3	700	2.10	1,470
1968	33,000	16.0	528	2.03	1,072
1969	52,000	14.4	750	1.87	1,402
1970	60,000	17.0	1,020	1.86	1,897
1971	50,700	23.7	1,200	1.75	2,100
1972	45,000	22.2	1,000	1.90	1,900
1973	35,000	24.0	840	5.50	4,620
1974	40,000	20.8	830	6.32	5,246
1975	35,000	21.4	750	4.50	3,375
1976	38,000	26.1	990	4.75	4,702
1977	55,000	24.5	1,350	5.50	7,425
1978	63,000	30.2	1,900	4.10	7,790
1979	70,000	27.1	1,900	4.35	8,265
1980	84,000	21.4	1,800	6.48	11,664
1981[R]	100,000	29.0	2,900	6.80	19,720
1982[R]	110,000	27.3	3,000	5.25	15,750
1983	100,000	25.0	2,500	5.98	14,960
1984[R]	110,000	27.3	3,000	6.18	18,520
1985[R]	100,000	37.0	3,700	5.75	21,310
1986[R]	145,000	26.2	3,800	5.17	19,570
1987[R]	180,000	29.4	5,300	5.28	27,940
1988[R]	180,000	16.1	2,900	5.85	16,960
1989[R]	130,000	22.3	2,900	5.09	14,750
1990	100,000	30.0	3,000	4.84	14,520

TABLE 79: Historical Production and Value of Fababeans

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1972	800	2 578	2 090	143.00	300
1973	5 300	2 242	11 790	143.00	1,700
1974	1 000	897	910	143.00	100
1975	800	1 681	1 360	121.00	200
1976	600	1 569	950	143.00	100
1977	1 200	2 578	3 130	121.00	400
1978	4 000	1 961	7 940	121.00	1,000
1979	6 500	1 513	9 800	154.00	1,500
1980	8 900	1 345	11 970	187.00	2,200
1981	4 800	2 034	9 850	209.00	2,100
1982	5 300	1 480	7 780	198.00	1,500
1983	4 000	2 242	9 070	187.00	1,700
1984	4 900	1 457	7 080	198.00	1,400
1985	4 500	1 345	5 990	163.00	1,000
1986	5 300	2 018	10 700	187.00	2,000
1987	6 500	2 690	17 420	165.00	2,900
1988	7 300	1 009	7 350	154.00	1,100
1989	6 100	897	5 440	176.00	1,000
1990	3 200	1 905	6 170	176.00	1,100

Year	Harvested Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1972	2,000	2,300	4,600	0.065	300
1973	13,000	2,000	26,000	0.065	1,700
1974	2,500	800	2,000	0.065	100
1975	2,000	1,500	3,000	0.055	200
1976	1,500	1,400	2,100	0.065	100
1977	3,000	2,300	6,900	0.055	400
1978	10,000	1,750	17,500	0.055	1,000
1979	16,000	1,350	21,600	0.070	1,500
1980	22,000	1,200	26,400	0.085	2,200
1981	12,000	1,815	21,700	0.095	2,100
1982	13,000	1,320	17,200	0.090	1,500
1983	10,000	2,000	20,000	0.085	1,700
1984	12,000	1,300	15,600	0.090	1,400
1985	11,000	1,200	13,200	0.074	1,000
1986	13,100	1,800	23,600	0.085	2,000
1987	16,000	2,400	38,400	0.075	2,900
1988	18,000	900	16,200	0.070	1,100
1989	15,000	800	12,000	0.080	1,000
1990	8,000	1,700	13,600	0.080	1,100

TABLE 80: Historical Production and Value of Lentils

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1972	1 000	1 065	1 080	105.00	110
1973	800	897	760	154.00	120
1974	500	897	440	441.00	190
1975	200	560	110	364.00	40
1976	100	1 009	80	463.00	40
1977	700	1 121	770	772.00	600
1978	800	1 054	810	331.00	270
1979	6 900	616	4 270	485.00	2,070
1980	15 400	504	7 760	595.00	4,620
1981	14 200	1 054	14 920	506.00	7,550
1982	16 200	1 121	18 140	386.00	7,000
1983	10 100	1 121	11 340	309.00	3,500
1984	10 100	1 345	13 610	397.00	5,400
1985	10 100	1 480	14 970	474.00	7,100
1986	17 800	1 177	20 960	397.00	8,320
1987	24 300	1 536	37 290	331.00	12,330
1988	12 100	594	7 210	315.00	2,270
1989	12 100	1 233	14 970	397.00	5,940
1990	24 300	1 720	41 700	419.00	17,470

Year	Harvested Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1972	2,500	950	2,400	0.048	110
1973	2,100	800	1,700	0.070	120
1974	1,200	800	1,000	0.200	190
1975	500	500	300	0.165	40
1976	200	900	200	0.210	40
1977	1,700	1,000	1,700	0.350	600
1978	1,900	940	1,800	0.150	270
1979	17,100	550	9,400	0.220	2,070
1980	38,000	450	17,100	0.270	4,620
1981	35,000	940	32,900	0.230	7,550
1982	40,000	1,000	40,000	0.175	7,000
1983	25,000	1,000	25,000	0.140	3,500
1984	25,000	1,200	30,000	0.180	5,400
1985	25,000	1 320	33,000	0.215	7,100
1986	44,000	1,050	46,200	0.180	8,320
1987	60,000	1,370	82,200	0.150	12,330
1988	30,000	530	15,900	0.143	2,270
1989	30,000	1,100	33,000	0.180	5,940
1990	60,000	1,533	92,000	0.190	17,470

TABLE 81: Historical Production and Value of Mustard Seed

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956[R]	200	560	140	110.00	15
1957[R]	100	840	50	118.00	6
1958[R]	100	1 000	130	114.00	15
1959[R]	100	670	70	108.00	7
1960[R]	200	710	140	105.00	15
1961[R]	4 400	430	1 900	97.00	184
1962[R]	6 900	710	4 900	98.00	482
1963[R]	10 900	845	9 200	110.00	1,010
1964[R]	4 900	795	3 900	112.00	435
1965[R]	11 300	955	10 800	112.00	1,214
1966[R]	12 700	615	7 800	113.00	882
1967[R]	11 700	785	9 200	119.00	1,096
1968[R]	26 300	945	24 900	110.00	2,750
1969[R]	15 000	905	13 600	75.00	1,020
1970[R]	10 100	940	9 500	81.00	760
1971[R]	4 200	880	3 700	84.00	312
1972[R]	6 100	935	5 700	99.00	562
1973[R]	16 200	895	14 500	154.00	2,240
1974	16 200	840	13 600	408.00	5,550
1975	9 300	710	6 600	275.00	1,812
1976	7 300	890	6 500	248.00	1,613
1977	16 200	1 005	16 300	232.00	3,780
1978	25 100	1 155	29 000	243.00	7,040
1979	10 100	940	9 500	221.00	2,100
1980	17 800	915	16 300	331.00	5,400
1981[R]	18 200	1 050	19 100	382.00	7,300
1982[R]	10 100	1 060	10 700	240.00	2,570
1983[R]	12 100	960	11 600	353.00	4,090
1984[R]	16 200	840	13 600	353.00	4,800
1985[R]	12 100	1 240	15 000	350.00	5,250
1986[R]	14 200	1 210	17 200	287.00	4,940
1987[R]	6 100	1 260	7 700	260.00	2,000
1988[R]	8 100	1 010	8 200	221.00	1,810
1989[R]	12 100	750	9 100	309.00	2,810
1990	14 200	1 250	17 700	278.00	4,920

TABLE 81: Mustard Seed Continued

Year	Harvested Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1956	600	500	300	.050	15
1957	150	750	112	.054	6
1958	325	900	292	.051	15
1959	240	600	144	.049	7
1960	450	700	315	.048	15
1961[R]	10,800	383	4,100	.045	184
1962	17,000	629	10,700	.045	482
1963	27,000	748	20,200	.050	1,010
1964	12,000	725	8,700	.050	435
1965	28,000	850	23,800	.051	1,214
1966	31,500	549	17,300	.051	882
1967	29,000	700	20,300	.054	1,096
1968	65,000	846	55,000	.050	2,750
1969	37,000	810	30,000	.034	1,020
1970[R]	25,000	840	21,000	.036	760
1971	10,300	796	8,200	.038	312
1972	15,000	833	12,500	.045	562
1973	40,000	800	32,000	.070	2,240
1974	40,000	750	30,000	.185	5,550
1975	23,000	630	14,500	.125	1,812
1976	18,000	800	14,400	.112	1,613
1977	40,000	900	36,000	.105	3,780
1978	62,000	1,032	64,000	.110	7,040
1979	25,000	840	21,000	.100	2,100
1980	44,000	818	36,000	.150	5,400
1981[R]	45,000	930	42,000	.174	7,300
1982[R]	25,000	940	23,500	.109	2,570
1983[R]	30,000	850	25,500	.160	4,090
1984[R]	40,000	750	30,000	.160	4,800
1985[R]	30,000	1,100	33,000	.160	5,250
1986[R]	35,000	1,090	38,000	.130	4,940
1987[R]	15,000	1,130	17,000	.120	2,000
1988[R]	20,000	900	18,000	.100	1,810
1989[R]	30,000	670	20,000	.141	2,810
1990	35,000	1,110	39,000	.126	4,920

TABLE 82: Historical Production and Value of Wild Rice (green basis)

	Production (kilograms)	Producer Value: Price Per Kilogram $	Producer Value: Total ($000)
1970	67 563	0.88	60
1971	226 720	1.10	250
1972	272 598	1.32	361
1973	284 489	1.54	439
1974	62 231	1.76	110
1975	64 622	1.98	128
1976	159 383	2.20	351
1977	523 614	2.87	1,512
1978	215 022	4.98	1,071
1979	271 058	4.70	1,273
1980	452 815	1.39	629
1981	205 396	3.44	706
1982	188 243	2.45	461
1983	152 255	3.26	497
1984	282 116	3.96	1,135
1985	293 098	2.31	677
1986	388 636	1.98	770
1987	748 440	1.14	940
1988	743 904	1.36	1,017
1989	544 320	1.65	900
1990	498 960	1.87	935

	Production (pounds)	Producer Value: Price Per Pound $	Producer Value: Total ($000)
1970	148,950	0.40	60
1971	499,826	0.50	250
1972	600,969	0.60	361
1973	627,184	0.70	439
1974	137,194	0.80	110
1975	142,466	0.90	128
1976	351,353	1.00	351
1977	1,154,360	1.31	1,512
1978	474,037	2.26	1,071
1979	597,575	2.13	1,273
1980	998,277	0.63	629
1981	452,816	1.56	706
1982	415,000	1.11	461
1983	336,661	1.48	497
1984	630,655	1.80	1,135
1985	644,815	1.05	677
1986	855,000	0.90	770
1987	1,650,000	0.57	940
1988	1,640,000	0.62	1,017
1989	1,200,000	0.75	900
1990	1,100,000	0.85	935

TABLE 83: Historical Production and Value of Fodder Corn

Year	Harvested Hectares	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value* Price Per Tonne $	Farm Value* Total ($000)
1956	7 800	11.41	89	6.60	588
1957	7 200	11.39	82	6.60	540
1958	9 600	10.42	100	8.30	825
1959	11 300	11.68	132	7.70	1,022
1960	10 900	11.93	130	7.70	1,001
1961	12 700	8.90	113	10.50	1,188
1962	15 600	15.13	236	7.70	1,820
1963	15 300	17.91	274	7.70	2,114
1964	19 800	11.21	222	6.60	1,470
1965	17 800	13.37	238	7.70	1,834
1966	15 000	13.80	207	7.70	1,596
1967	10 500	12.10	127	7.70	980
1968	11 900	12.77	152	7.70	1,176
1969	9 300	15.27	142	7.70	1,099
1970	8 100	13.46	109	7.70	840
1971[R]	3 900	16.41	64	7.70	490
1972[R]	8 900	16.29	145	11.00	1,600
1973[R]	9 700	15.46	150	13.20	1,980
1974[R]	11 300	16.90	191	15.40	2,940
1975[R]	13 400	19.63	263	16.50	4,350
1976[R]	13 400	18.96	254	16.50	4,200
1977[R]	15 800	20.13	318	16.50	5,250
1978[R]	17 000	21.35	363	18.70	6,800
1979[R]	18 200	17.97	327	23.00	7,560
1980[R]	30 400	12.53	381	32.00	12,180
1981[R]	20 200	17.50	354	27.00	9,560
1982[R]	31 200	15.40	481	25.00	12,020
1983[R]	20 200	15.20	308	25.00	7,700
1984[R]	18 200	13.50	245	28.00	6,860
1985[R]	16 200	15.70	254	29.00	7,370
1986[R]	12 900	21.10	272	28.00	7,620
1987[R]	10 100	20.70	209	21.00	4,390
1988[R]	10 100	14.40	145	31.00	4,500
1989[R]	12 100	18.80	227	25.00	5,680
1990	12 100	22.50	272	21.00	5,710

* From 1979, farm value is based on value of tame hay.

TABLE 83: Fodder Corn Continued

Year	Harvested Acres	Yield Per Acre (tons)	Production (000 tons)	Farm Value* Price Per Ton $	Farm Value* Total ($000)
1956	19,200	5.10	98	6.00	588
1957	17,900	5.00	90	6.00	540
1958	23,800	4.62	110	7.50	825
1959	28,000	5.21	146	7.00	1,022
1960	26,900	5.32	143	7.00	1,001
1961	31,300	4.00	125	9.50	1,188
1962	38,500	6.75	260	7.00	1,820
1963	37,800	7.99	302	7.00	2,114
1964	49,000	5.00	245	6.00	1,470
1965	44,000	5.95	262	7.00	1,834
1966	37,100	6.15	228	7.00	1,596
1967	26,000	5.38	140	7.00	980
1968	29,500	5.69	168	7.00	1,176
1969	23,000	6.84	157	7.00	1,099
1970	20,000	6.00	120	7.00	840
1971[R]	9,700	7.22	70	7.00	490
1972[R]	22,000	7.27	160	10.00	1,600
1973[R]	24,000	6.88	165	12.00	1,980
1974[R]	28,000	7.50	210	14.00	2,940
1975[R]	33,000	8.79	290	15.00	4,350
1976[R]	33,000	8.48	280	15.00	4,200
1977[R]	39,000	8.97	350	15.00	5,250
1978[R]	42,000	9.52	400	17.00	6,800
1979[R]	45,000	8.00	360	21.00	7,560
1980[R]	75,000	5.60	420	29.00	12,180
1981[R]	50,000	7.80	390	24.00	9,360
1982[R]	77,000	6.88	530	23.00	12,020
1983[R]	50,000	6.80	340	23.00	7,700
1984[R]	45,000	6.00	270	25.00	6,860
1985[R]	45,000	7.00	280	26.00	7,370
1986[R]	32,000	9.38	300	25.00	7,620
1987[R]	25,000	9.20	230	19.00	4,390
1988[R]	25,000	6.40	160	28.00	4,500
1989[R]	30,000	8.33	250	23.00	5,680
1990	30,000	10.00	300	19.00	5,710

TABLE 84: Historical Production and Value of Tame Hay

Year	Harvested Hectares (000)	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956	260	4.42	1 150	11.00	12,680
1957	290	3.99	1 157	11.00	12,750
1958	320	2.89	924	15.20	14,011
1959	348	3.92	1 332	16.50	22,020
1960	380	3.83	1 457	14.20	20,717
1961	410	2.00	820	19.30	15,820
1962	420	4.51	1 896	15.40	29,260
1963	410	4.13	1 694	16.50	28,005
1964	400	3.32	1 329	17.60	23,440
1965	390	3.80	1 481	18.20	26,928
1966	430	4.43	1 903	18.20	34,617
1967	430	3.37	1 451	19.30	28,000
1968	380	3.82	1 451	20.40	29,600
1969[R]	400	4.31	1 724	18.20	31,350
1970	470	4.30	2 023	16.50	33,450
1971	440	4.33	1 905	18.20	34,650
1972	490	3.70	1 814	22.10	40,000
1973	490	4.07	1 996	33.10	66,000
1974	510	4.27	2 177	38.60	84,000
1975	510	4.45	2 268	40.80	92,500
1976	570	4.14	2 359	41.50	97,968
1977	570	4.14	2 359	41.30	97,500
1978	570	4.62	2 631	40.70	107,010
1979	550	4.29	2 359	50.00	117,936
1980	530	2.57	1 361	70.00	95,250
1981[R]	510	4.45	2 268	60.00	136,080
1982[R]	510	4.45	2 268	55.00	124,740
1983[R]	526	4.14	2 177	55.00	119,740
1984[R]	526	3.97	2 087	62.00	129,400
1985[R]	546	3.99	2 177	62.80	136,720
1986[R]	587	5.25	3 084	61.00	188,120
1987[R]	627	4.63	2 903	48.00	139,340
1988[R]	647	2.66	1 724	68.00	117,230
1989[R]	647	3.93	2 540	56.00	142,240
1990	668	4.62	3 084	46.00	141,860

TABLE 84: Tame Hay Continued

Year	Harvested Acres (000)	Yield Per Acre (tons)	Production (000 tons)	Farm Value Price Per Ton $	Farm Value Total ($000)
1956	634	2.00	1,268	10.00	12,680
1957	722	1.77	1,275	10.00	12,750
1958	790	1.29	1,019	13.75	14,011
1959	834	1.76	1,468	15.00	22,020
1960	934	1.72	1,606	12.90	20,717
1961	1,004	0.90	904	17.50	15,820
1962	1,045	2.00	2,090	14.00	29,260
1963	1,020	1.83	1,867	15.00	28,005
1964	990	1.48	1,465	16.00	23,440
1965	960	1.70	1,632	16.50	26,928
1966	1,065	1.97	2,098	16.50	34,617
1967	1,052	1.52	1,600	17.50	28,000
1968	940	1.70	1,600	18.50	29,600
1969	1,000	1.90	1,900	16.50	31,350
1970	1,160	1.92	2,230	15.00	33,450
1971	1,084	1.94	2,100	16.50	34,650
1972	1,200	1.67	2,000	20.00	40,000
1973	1,200	1.83	2,200	30.00	66,000
1974	1,250	1.92	2,400	35.00	84,000
1975	1,250	2.00	2,500	37.00	92,500
1976	1,400	1.86	2,600	37.68	97,968
1977	1,400	1.86	2,600	37.50	97,500
1978	1,400	2.07	2,900	36.90	107,010
1979	1,350	1.93	2,600	45.36	117,936
1980	1,300	1.15	1,500	63.50	95,250
1981[R]	1,250	2.00	2,500	54.43	136,080
1982[R]	1,250	2.00	2,500	49.90	124,740
1983[R]	1,300	1.85	2,400	49.89	119,740
1984[R]	1,300	1.77	2,300	56.26	129,400
1985[R]	1,350	1.78	2,400	57.00	136,720
1986[R]	1,450	2.34	3,400	55.33	188,120
1987[R]	1,550	2.06	3,200	40.00	139,340
1988[R]	1,600	1.19	1,900	62.00	117,230
1989[R]	1,600	1.75	2,800	51.00	142,240
1990	1,650	2.06	3,400	42.00	141,860

TABLE 85: Historical Production and Value of Sugar Beets

Year	Harvested Hectares	Yield Per Hectare (tonnes)	Production (tonnes)	Farm Value* Price Per Tonne $	Farm Value* Total ($000)
1956[R]	9 230	22.50	207 670	18.56	3,855
1957	8 669	22.91	198 575	13.81	2,742
1958	8 885	20.02	177 909	18.17	3,233
1959	7 092	24.54	174 065	13.15	2,289
1960	10 145	23.11	234 464	15.13	3,547
1961	8 556	19.94	170 640	14.24	2,430
1962	8 727	20.45	178 473	22.28	3,976
1963	11 381	27.71	315 419	18.36	5,791
1964	12 068	21.40	258 285	15.62	4,034
1965	10 488	22.69	237 930	18.92	4,502
1966	9 326	23.79	221 840	18.51	4,106
1967	10 886	18.90	205 691	19.62	4,036
1968	11 768	23.01	270 725	17.61	4,767
1969	12 789	24.34	311 322	19.07	5,937
1970	9 317	21.05	196 084	18.87	3,700
1971	12 495	26.36	329 326	21.03	6,926
1972	11 371	26.39	300 115	24.33	7,301
1973	9 984	27.95	279 039	35.13	9,803
1974	10 899	18.44	200 938	56.14	11,281
1975[R]	12 914	27.83	359 449	39.99	14,374
1976	12 541	27.90	349 919	34.06	11,918
1977[R]	10 235	39.09	400 102	31.30	12,523
1978	9 575	38.93	372 800	38.17	14,230
1979	8 945	27.97	250 187	77.80	19,465
1980[R]	9 844	23.85	234 787	55.61	13,057
1981	11 229	36.20	406 442	41.24	16,762
1982	11 234	33.14	372 271	52.43	19,518
1983[R]	11 122	30.02	333 900	39.62	13,229
1984	10 768	30.84	332 086	33.99	11,288
1985	9 602	30.25	290 474	44.64	12,967
1986[R]	11 016	31.74	349 693	43.32	15,149
1987	10 524	40.29	424 048	41.94	17,785
1988[R]**	9 135	24.89	227 326	44.23	10,055
1989[R]**	10 493	31.35	328 954	45.11	14,839
1990***	10 926	32.17	351 507	40.00	14,060

* Includes deficiency payments starting in 1958.

** Corrected values.

*** Estimated.

TABLE 85: Sugar Beets Continued

Year	Harvested Acres	Yield Per Acre (tons)	Production (tons)	Farm Value* Price Per Ton $	Farm Value* Total ($000)
1956[R]	22,808	10.04	228,915	16.84	3,855
1957	21,420	10.22	218,889	12.53	2,742
1958	21,955	8.93	196,109	16.48	3,233
1959	17,525	10.95	191,872	11.93	2,289
1960	25,068	10.31	258,450	13.73	3,547
1961	21,141	8.90	188,096	12.92	2,430
1962	21,565	9.12	196,731	20.21	3,976
1963	28,123	12.36	347,686	16.66	5,791
1964	29,819	9.55	284,708	14.17	4,034
1965	25,917	10.12	262,270	17.16	4,502
1966	23,045	10.61	244,534	16.79	4,106
1967[R]	26,899	8.43	226,733	17.80	4,036
1968[R]	29,079	10.26	298,420	15.98	4,767
1969	31,602	10.86	343,170	17.30	5,937
1970	23,022	9.39	216,143	17.12	3,700
1971	30,876	11.76	363,016	19.08	6,926
1972	28,098	11.77	330,817	22.07	7,301
1973	24,670	12.47	307,585	31.87	9,803
1974	26,931	8.22	221,494	50.93	11,281
1975[R]	31,912	12.41	396,221	36.28	14,374
1976[R]	30,990	12.44	385,716	30.90	11,918
1977	25,292	17.44	441,032	28.40	12,523
1978	23,659	17.37	410,937	34.63	14,230
1979	22,103	12.48	275,781	70.58	19,465
1980	24,326	10.64	258,806	50.45	13,057
1981	27,747	16.15	448,021	37.41	16,762
1982	27,759	14.78	410,354	47.56	19,518
1983	27,484	13.39	368,058	35.94	13,229
1984	26,607	13.76	366,058	30.84	11,288
1985	23,727	13.49	320,189	40.50	12,967
1986	27,222	14.16	385,467	39.30	15,149
1987[R]	26,006	17.98	467,428	38.05	17,785
1988**	22,574	11.10	250,581	40.13	10,055
1989[R]**	25,929	13.99	362,606	40.92	14,839
1990***	26,998	14.35	387,466	36.29	14,060

TABLE 86: Historical Production Value Summary of Horticultural Crops and Forage Seeds

Year	Potatoes[R]	Vegetables, Fruits, Ornamentals	Total Horticulture	Forage Seeds
		- thousand dollars -		
1956	2,234	7,315	9,549	1,271
1957	2,986	8,150	11,136	825
1958	2,220	9,000	11,220	682
1959	2,432	9,000	11,432	1,248
1960	2,448	9,200	11,648	1,086
1961	1,802	9,090	10,892	1,254
1962	2,989	9,330	12,319	2,105
1963	2,765	10,125	12,890	1,503
1964	7,488	9,144	16,632	1,259
1965	7,077	8,861	15,938	2,162
1966	4,899	9,078	13,977	1,762
1967	5,626	10,055	15,681	1,238
1968	5,580	9,310	14,890	571
1969	7,296	9,669	16,965	1,524
1970	6,660	9,713	16,373	1,701
1971	7,257	10,632	17,889	1,684
1972	7,500	11,280	18,780	1,542
1973	9,240	11,375	20,615	5,199
1974	12,887	16,614	29,501	2,625
1975	17,460	17,468	34,928	2,031
1976	13,146	19,153	32,299	3,050
1977	20,185	18,252	38,437	3,828
1978	24,548	20,285	44,833	7,488
1979	22,440	21,786	44,226	8,312
1980	33,539	25,077	58,616	4,902
1981	36,140	26,561	62,701	6,681
1982	33,955	29,155	63,110	5,025
1983	35,863	27,187	63,050	7,371
1984	38,731	37,165	75,896	5,563
1985	46,217	35,796	82,013	6,162
1986	32,442	41,460	73,902	8,184
1987	49,925	40,903	90,828	14,093
1988[R]	27,988	38,006	65,994	13,795
1989[R]	40,666	38,936	79,602	11,255
1990	48,024	36,287	84,311	8,210

TABLE 87: Historical Production and Value of Potatoes*

Year	Harvested Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1956	6 677	12 440	83 054	26.90	2,234
1957	6 192	7 730	47 855	62.39	2,986
1958	6 313	8 620	54 432	40.78	2,220
1959	6 273	7 678	48 172	50.49	2,432
1960	6 880	10 087	69 401	35.27	2,448
1961	8 215	4 236	34 791	51.81	1,802
1962	9 308	12 778	118 934	25.13	2,989
1963	8 013	11 769	94 303	29.32	2,765
1964	8 417	13 451	113 219	66.14	7,488
1965	9 065	13 115	118 889	59.52	7,077
1966	9 915	14 009	138 892	35.27	4,899
1967	10 724	12 264	131 544	42.77	5,626
1968	10 724	12 689	136 080	41.01	5,580
1969	11 736	14 684	172 368	42.33	7,296
1970	13 354	12 567	167 832	39.68	6,660
1971	13 233	14 054	185 976	39.02	7,257
1972	8 903	12 735	113 400	66.14	7,500
1973	12 140	16 440	199 584	46.30	9,240
1974	14 164	15 692	222 264	57.98	12,887
1975	12 950	15 762	204 120	85.54	17,460
1976	13 962	13 645	190 512	69.00	13,146
1977	14 974	16 661	249 480	80.90	20,185
1978	14 974	20 599	308 448	79.59	24,548
1979	14 974	18 830	281 958	79.59	22,440
1980	15 985	17 880	285 813	117.34	33,539
1981	16 552	18 830	311 669	115.96	36,140
1982	16 228	16 478	267 397	126.98	33,955
1983	16 592	16 175	268 440	133.60	35,863
1984	17 604	16 254	286 131	135.36	38,731
1985	19 263	19 060	367 144	125.88	46,217
1986	18 784	18 609	349 544	92.81	32,442
1987	18 616	22 909	426 475	117.06	49,925
1988	17 000	11 473	195 048	143.50	27,988
1989	18 413	13 389	246 532	164.95	40,666
1990	19 020	16 722	318 064	151.00	48,024

* Major corrections made because of errors in conversion from Imperial.

TABLE 87: Potatoes Continued

Year	Harvested Acres	Yield Per Acre (cwt)	Production (000 cwt)	Farm Value Price Per cwt $	Farm Value Total ($000)
1956	16,500	111.0	1,831	1.22	2,234
1957	15,300	69.0	1,055	2.83	2,986
1958	15,600	76.9	1,200	1.85	2,220
1959	15,500	68.5	1,062	2.29	2,432
1960	17,000	90.0	1,530	1.60	2,448
1961	20,300	37.8	767	2.35	1,802
1962	23,000	114.0	2,622	1.14	2,989
1963	19,800	105.0	2,079	1.33	2,765
1964	20,800	120.0	2,496	3.00	7,488
1965	22,400	117.0	2,621	2.70	7,077
1966	24,500	125.0	3,062	1.60	4,899
1967	26,500	109.4	2,900	1.94	5,626
1968	26,500	113.2	3,000	1.86	5,580
1969	29,000	131.0	3,800	1.92	7,296
1970	33,000	112.1	3,700	1.80	6,660
1971	32,700	125.4	4,100	1.77	7,257
1972	22,000	113.6	2,500	3.00	7,500
1973	30,000	146.7	4,400	2.10	9,240
1974	35,000	140.0	4,900	2.63	12,887
1975	32,000	140.6	4,500	3.88	17,460
1976	34,500	121.7	4,200	3.13	13,146
1977	37,000	148.6	5,500	3.67	20,185
1978	37,000	183.8	6,800	3.61	24,548
1979	37,000	168.0	6,216	3.61	22,440
1980	39,500	159.5	6,301	5.32	33,539
1981[R]	40,900	168.0	6,871	5.26	36,140
1982	40,100	147.0	5,895	5.76	33,955
1983[R]	41,000	144.3	5,918	6.06	35,863
1984	43,500	145.0	6,308	6.14	38,731
1985[R]	47,600	170.0	8,094	5.71	46,217
1986[R]	46,417	166.0	7,706	4.21	32,442
1987[R]	46,000	204.4	9,402	5.31	49,925
1988[R]	42,000	102.4	4,300	6.51	27,988
1989[R]	45,500	119.5	5,435	7.48	40,666
1990	47,000	149.2	7,012	6.85	48,024

TABLE 88: Historical Marketings of Major Crops

Crop Year	All Wheat	Oats	Barley	SUBTOTAL	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				- thousand tonnes -				
1955-56	888.4	191.1	495.5	1 575.0	39.3	102.8	NA	1,717.1
1956-57	1 072.4	335.5	527.6	1 935.6	15.8	172.9	2.6	2,126.9
1957-58	1 133.3	298.6	427.0	1 858.9	25.2	73.6	4.1	1,961.9
1958-59	1 282.9	220.8	520.0	2 023.6	25.4	91.6	4.6	2,145.2
1959-60	1 317.8	112.4	388.8	1 818.9	27.4	84.9	5.0	1,936.2
1960-61	1 289.8	166.1	332.3	1 788.2	33.8	130.7	9.6	1,962.3
1961-62	887.9	81.8	178.7	1 148.4	17.7	83.4	7.8	1,257.3
1962-63	1 693.7	494.6	273.8	2 462.1	67.4	168.0	11.6	2,709.1
1963-64	1 379.0	222.1	186.3	1 787.4	36.2	202.4	14.7	2,040.6
1964-65	1 859.4	265.1	190.1	2 314.6	49.7	230.1	26.9	2,621.4
1965-66	1 876.7	338.6	285.2	2 500.4	65.0	355.4	45.5	2,966.3
1966-67	1 780.5	212.6	312.9	2 305.9	51.3	232.2	39.0	2,628.4
1967-68	1 762.3	238.4	296.5	2 297.2	47.7	120.4	41.3	2,506.5
1968-69	1 626.0	316.2	241.9	2 184.1	25.1	214.2	38.1	2,461.5
1969-70	1 419.7	150.3	588.0	2 158.1	48.8	210.7	63.8	2,481.4
1970-71	1 017.7	208.8	633.2	1 859.8	57.1	236.9	137.8	2,291.7
1971-72	1 556.8	199.1	1 192.8	2 948.7	81.3	116.7	194.7	3,341.4
1972-73	1 768.8	218.2	1 116.8	3 103.8	34.5	122.5	191.1	3,451.9
1973-74	1 669.6	216.8	1 002.9	2 889.3	35.3	156.4	145.2	3,226.2
1974-75	1 352.4	193.3	704.7	2 250.4	48.6	127.8	142.9	2,569.7
1975-76	1 744.3	256.0	631.5	2 631.8	75.0	193.3	208.8	3,108.9
1976-77	1 918.3	259.8	974.1	3 152.2	65.8	122.3	128.1	3,468.4
1977-78	2 517.5	283.4	1 164.7	3 965.6	62.9	262.8	257.0	4,548.3
1978-79	1 913.8	115.8	1 039.2	3 068.8	42.2	234.0	472.5	3,817.5
1979-80	2 448.0	38.6	920.5	3 407.1	94.2	367.9	471.8	4,341.0
1980-81	1 902.7	42.6	994.1	2 939.4	72.9	213.1	274.0	3,499.4
1981-82	2 811.3	84.7	1 354.2	4 250.2	133.5	201.9	312.8	4,898.4
1982-83	3 479.8	84.7	1 389.9	4 954.4	183.3	352.9	344.8	5,835.4
1983-84	3 029.4	78.8	1 232.2	4 340.4	163.2	284.8	304.4	5,092.8
1984-85	3 265.7	79.5	1 327.0	4 672.2	136.5	364.5	474.2	5,647.4
1985-86	4 836.2	100.5	1 581.9	6 518.6	86.2	452.8	536.5	7,594.0
1986-87	3 455.3	84.6	1 009.5	4 549.4	38.8	447.1	525.8	5,561.1
1987-88	3 465.9	107.6	893.9	4 467.4	50.0	334.1	493.6	5,345.1
1988-89	2 288.6	94.3	646.5	3 029.4	50.3	186.5	544.7	3,810.9
1989-90	3 760.4	106.7	787.0	4 654.0	123.3	186.1	366.7	5,330.2

TABLE 88: Crop Marketings Continued

Crop Year	All Wheat	Oats	Barley	SUBTOTAL	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				- thousand bushels -				
1955-56	32,640	12,390	22,760	67,790	1,550	4,050	NA	73,390
1956-57	39,410	21,750	24,230	85,390	620	6,810	120	92,940
1957-58	41,640	19,360	19,610	80,620	990	2,900	180	84,690
1958-59	47,140	14,320	23,880	85,340	1,000	3,600	200	90,140
1959-60	48,420	7,290	17,860	73,560	1,080	3,340	220	78,200
1960-61	47,390	10,770	15,260	73,420	1,330	5,140	430	80,320
1961-62	32,630	5,300	8,210	46,140	700	3,280	340	50,460
1962-63	62,230	32,070	12,580	106,880	2,650	6,610	510	116,660
1963-64	50,670	14,400	8,560	73,630	1,420	7,970	650	83,670
1964-65	68,320	17,190	8,730	94,240	1,960	9,060	1,190	106,450
1965-66	68,960	21,950	13,100	104,010	2,560	13,990	2,010	122,560
1966-67	65,420	13,790	14,370	93,580	2,020	9,140	1,720	106,460
1967-68	64,760	15,460	13,620	93,830	1,880	4,740	1,820	102,270
1968-69	59,740	20,510	11,110	91,360	990	8,430	1,680	102,460
1969-70	52,170	9,740	27,010	88,920	1,920	8,300	2,820	101,950
1970-71	37,400	13,540	29,080	80,020	2,250	9,330	6,080	97,670
1971-72	57,200	12,910	54,780	124,890	3,200	4,590	8,590	141,270
1972-73	64,990	14,150	51,300	130,440	1,360	4,820	8,430	145,050
1973-74	61,350	14,060	46,070	121,470	1,390	6,160	6,400	135,420
1974-75	49,690	12,540	32,370	94,600	1,910	5,030	6,300	107,830
1975-76	64,090	16,600	29,010	109,700	2,950	7,610	9,210	129,470
1976-77	70,490	16,850	44,740	132,070	2,590	4,810	5,650	145,120
1977-78	92,500	18,380	53,490	164,370	2,480	10,350	11,330	188,530
1978-79	70,320	7,510	47,730	125,560	1,660	9,210	20,830	157,270
1979-80	89,950	2,500	42,280	134,730	3,710	14,480	20,800	173,720
1980-81	69,910	2,760	45,660	118,330	2,870	8,390	12,080	141,670
1981-82	103,300	5,490	62,200	170,990	5,260	7,950	13,790	197,980
1982-83	127,860	5,490	63,840	197,190	7,220	13,890	15,200	233,500
1983-84	111,310	5,110	56,590	173,020	6,420	11,210	13,420	204,070
1984-85	119,990	5,150	60,950	186,100	5,370	14,350	20,910	226,730
1985-86	177,700	6,520	72,660	256,870	3,390	17,820	22,580	300,670
1986-87	126,960	5,490	46,370	178,810	1,530	17,600	22,130	200,070
1987-88	127,350	6,980	41,060	175,380	1,970	13,150	20,780	211,280
1988-89	84,090	6,110	29,690	119,900	1,980	7,340	22,930	152,150
1989-90	138,170	6,920	36,140	181,230	4,860	7,330	16,170	209,590

TABLE 89: Historical Quantities of Major Grain Stocks on Farms at July 31

Year	Wheat	Oats	Barley	Rye	Flax	Canola (Rapeseed)	TOTAL
			- thousand tonnes -				
1956	108.9	123.4	87.1	11.4	2.5		333.3
1957	326.6	539.8	196.0	17.8	3.8		1 083.9
1958	244.9	385.6	130.6	12.7	2.5		776.4
1959	217.7	262.2	239.5	7.6	5.1		732.1
1960	244.9	277.6	304.8	15.2	2.5		845.1
1961	353.8	323.9	239.5	7.6	5.1		929.9
1962	54.4	77.1	43.5	1.3	5.1		181.4
1963	163.3	200.5	65.3	0.8	2.5		432.4
1964	81.6	154.2	65.3	2.5	3.8		307.5
1965	190.5	246.8	43.5	10.2	2.5		493.5
1966	136.1	185.1	43.5	10.2	7.6		382.5
1967	190.5	123.4	65.3	7.6	2.5		389.4
1968	571.5	138.8	196.0	5.1	1.5		912.9
1969	1 088.6	385.6	435.5	25.4	5.1	2.3	1 942.4
1970	1 088.6	462.7	196.0	17.8	5.1	0.6	1 770.7
1971	517.1	138.8	108.9	15.2	21.6	0.0	801.6
1972	544.3	215.9	217.7	5.1	25.4	52.2	1 060.6
1973	136.1	123.4	174.2	2.5	2.5	1.1	439.8
1974	136.1	108.0	174.2	10.2	7.6	4.5	440.6
1975	54.4	61.7	65.3	15.2	15.2	6.8	218.6
1976	81.6	92.5	108.9	7.6	10.2	49.9	350.7
1977	571.5	154.2	87.1	2.5	12.7	4.5	832.5
1978	489.9	185.1	435.4	12.7	38.1	6.8	1 168.0
1979	1 115.8	123.4	544.3	50.8	66.0	65.8	1 966.1
1980	326.6	46.3	130.6	20.3	76.2	90.7	690.7
1981	55.0	30.0	65.0	8.0	13.0	46.0	217.0
1982	270.0	60.0	200.0	15.0	10.0	14.0	569.0
1983	110.0	110.0	375.0	25.0	45.0	10.0	675.0
1984	70.0	60.0	70.0	5.0	5.0	2.0	212.0
1985	40.0	50.0	70.0	10.0	3.0	5.0	178.0
1986	40.0	100.0	130.0	25.0	20.0	20.0	335.0
1987	530.0	80.0	160.0	25.0	50.0	10.0	855.0
1988	260.0	80.0	310.0	10.0	60.0	20.0	740.0
1989	50.0	30.0	95.0	5.0	15.0	40.0	235.0
1990	40.0	50.0	130.0	20.0	5.0	15.0	260.0

TABLE 89: Stocks Continued

Year	Wheat	Oats	Barley	Rye	Flax	Canola (Rapeseed)	TOTAL
			- thousand bushels -				
1956	4,000	8,000	4,000	450	100		16,550
1957	12,000	35,000	9,000	700	150		56,850
1958	9,000	25,000	6,000	500	100		40,600
1959	8,000	17,000	11,000	300	200		36,500
1960	9,000	18,000	14,000	600	100		41,700
1961	13,000	21,000	11,000	300	200		45,500
1962	2,000	5,000	2,000	50	200		9,250
1963	6,000	13,000	3,000	30	100		22,130
1964	3,000	10,000	3,000	100	150		16,250
1965	7,000	16,000	2,000	400	100		25,500
1966	5,000	12,000	2,000	400	300		19,700
1967	7,000	8,000	3,000	300	100		18,400
1968	21,000	9,000	9,000	200	60		39,260
1969	40,000	25,000	20,000	1,000	200	100	86,300
1970	40,000	30,000	9,000	700	200	30	79,930
1971	19,000	9,000	5,000	600	850	0	34,450
1972	20,000	14,000	10,000	200	1,000	2,300	47,500
1973	5,000	8,000	8,000	100	100	50	21,250
1974	5,000	7,000	8,000	400	300	200	20,900
1975	2,000	4,000	3,000	600	600	300	10,500
1976	3,000	6,000	5,000	300	400	2,200	16,900
1977	21,000	10,000	4,000	100	500	200	35,800
1978	18,000	12,000	20,000	500	1,500	300	52,300
1979	41,000	8,000	25,000	2,000	2,600	2,900	81,500
1980	12,000	3,000	6,000	800	3,000	4,000	28,800
1981	2,020	1,950	2,990	310	510	2,030	9,810
1982	9,920	3,890	9,190	590	390	620	24,600
1983	4,040	7,130	17,220	980	1,770	440	31,590
1984	2,570	3,890	3,220	200	200	90	10,160
1985	1,470	3,240	3,220	390	120	220	8,660
1986	1,470	6,480	5,970	980	790	880	16,580
1987	19,470	5,190	7,350	980	1,970	440	35,400
1988	9,550	5,190	14,240	390	2,360	880	32,620
1989	1,840	1,950	4,360	200	590	1,760	10,700
1990	1,470	3,240	5,970	790	200	660	12,330

TABLE 90: Historical Quantities of Grain Used On-Farm for Feed (includes waste and dockage, excludes seed)

Crop Year	All Wheat	Oats	Barley	SUBTOTAL	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				- thousand tonnes -				
1955-56	125.0	493.0	406.0	1 024.0				—
1956-57	125.0	566.0	226.0	917.0				—
1957-58	113.0	567.0	295.0	976.0				—
1958-59	214.0	645.0	284.0	1 143.0				—
1959-60	225.0	607.0	232.0	1 065.0				—
1960-61	274.0	621.0	235.0	1 131.0				—
1961-62	209.0	492.0	192.0	894.0				—
1962-63	240.0	1 163.0	142.0	1 544.0				—
1963-64	222.0	741.0	145.0	1 108.0				—
1964-65	209.0	732.0	161.0	1 101.0				—
1965-66	192.0	829.0	167.0	1 187.0				—
1966-67	167.0	798.0	244.0	1 209.0				—
1967-68	164.0	726.0	253.0	1 143.0				—
1968-69	229.0	650.0	415.0	1 294.0				—
1969-70	262.0	807.0	472.0	1 542.0				—
1970-71	278.0	898.0	539.0	1 715.0				—
1971-72	330.9	853.2	672.2	1 856.3	10.1	20.5	23.6	1 910.5
1972-73	403.0	672.6	704.5	1 780.1	12.4	39.6	51.5	1 883.6
1973-74	319.3	726.5	742.0	1 787.8	8.0	20.8	24.2	1 840.8
1974-75	208.4	473.4	502.5	1 184.3	5.8	18.9	45.2	1 254.2
1975-76	206.5	440.1	381.0	1 027.6	5.8	17.1	30.8	1 081.3
1976-77	264.2	580.5	438.8	1 283.5	4.2	21.9	17.6	1 327.2
1977-78	174.0	551.3	473.0	1 198.3	7.4	28.7	27.7	1 262.1
1978-79	176.4	560.2	652.4	1 389.0	14.9	33.4	42.5	1 479.8
1979-80	256.7	325.5	682.6	1 264.8	11.0	52.4	67.5	1 395.7
1980-81	125.4	226.6	558.0	910.0	8.1	48.3	63.9	1 030.3
1981-82	147.3	325.2	769.4	1 241.9	27.4	46.7	22.7	1 338.7
1982-83	205.9	368.0	745.6	1 319.5	13.1	35.7	55.4	1 423.7
1983-84	251.1	349.1	597.4	1 197.6	12.8	33.5	96.8	1 340.7
1984-85	321.8	342.8	544.8	1 209.4	47.2	57.8	63.6	1 378.0
1985-86	181.9	325.6	824.4	1 331.9	63.6	69.8	80.5	1 545.9
1986-87	328.3	380.5	746.2	1 455.0	20.1	79.9	59.2	1 614.2
1987-88	548.0	288.8	838.1	1 674.9	6.9	48.7	76.7	1 807.2
1988-89	104.2	158.3	595.9	858.4	4.2	43.3	43.8	949.7
1989-90	84.5	194.4	664.3	943.3	52.0	29.9	54.4	1 079.5

TABLE 90: Feed Continued

Crop Year	All Wheat	Oats	Barley	SUBTOTAL	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				- thousand bushels -				
1955-56	4,590	31,980	18,630	55,200				—
1956-57	4,590	36,680	10,390	51,650				—
1957-58	4,160	36,780	13,570	54,510				—
1958-59	7,860	41,800	13,050	62,720				—
1959-60	8,260	39,380	10,670	58,310				—
1960-61	10,090	40,290	10,800	61,170				—
1961-62	7,690	31,920	8,840	48,440				—
1962-63	8,820	75,390	6,500	90,710				—
1963-64	8,160	48,070	6,640	62,860				—
1964-65	7,680	47,440	7,380	62,500				—
1965-66	7,060	53,730	7,660	68,450				—
1966-67	6,150	51,720	11,210	69,080				—
1967-68	6,030	47,050	11,610	64,690				—
1968-69	8,430	42,130	19,060	69,620				—
1969-70	9,630	52,350	21,700	83,680				—
1970-71	10,200	58,240	24,750	93,190				—
1971-72	12,160	55,320	30,870	98,360	400	810	1,040	100,600
1972-73	14,810	43,610	32,360	90,780	490	1,560	2,270	95,100
1973-74	11,730	47,110	34,080	92,920	310	820	1,070	95,120
1974-75	7,660	30,700	23,080	61,430	230	740	1,990	64,400
1975-76	7,590	28,540	17,500	53,620	230	670	1,360	55,880
1976-77	9,710	37,640	20,150	67,500	170	860	780	69,310
1977-78	6,390	35,750	21,720	63,870	290	1,130	1,220	66,510
1978-79	6,480	36,320	29,960	72,770	590	1,310	1,870	76,550
1979-80	9,430	21,110	31,350	61,890	430	2,060	2,980	67,360
1980-81	4,610	14,690	25,630	44,930	320	1,900	2,820	49,970
1981-82	5,410	21,090	35,340	61,840	1,080	1,840	1,000	65,750
1982-83	7,570	23,860	34,240	65,670	520	1,410	2,440	70,040
1983-84	9,230	22,640	27,440	59,300	500	1,320	4,270	65,390
1984-85	11,820	22,230	25,020	59,070	1,860	2,280	2,800	66,010
1985-86	6,680	21,110	37,860	65,660	2,500	2,750	4,620	75,540
1986-87	12,060	24,670	34,270	71,010	790	3,140	3,660	78,600
1987-88	63,390	19,590	49,850	132,840	260	7,730	2,220	143,040
1988-89	3,830	10,260	27,370	41,460	170	1,710	3,020	46,350
1989-90	3,110	12,610	30,510	46,220	2,050	1,180	2,400	51,840

TABLE 91: Historical Quantities of Grain Used On-Farm for Seed

Crop Year	All Wheat	Oats	Barley	SUBTOTAL	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				- thousand tonnes -				
1955-56	93.0	47.0	52.0	191.0	2.0	27.0	2.0	222.0
1956-57	93.0	36.0	57.0	185.0	2.0	30.0	2.0	219.0
1957-58	105.0	34.0	53.0	192.0	2.0	19.0	1.0	214.0
1958-59	113.0	34.0	42.0	189.0	2.0	20.0	1.0	212.0
1959-60	118.0	36.0	31.0	185.0	2.0	24.0	2.0	214.0
1960-61	123.0	31.0	22.0	176.0	2.0	26.0	2.0	206.0
1961-62	128.0	43.0	21.0	192.0	4.0	23.0	2.0	221.0
1962-63	133.0	39.0	20.0	191.0	3.0	28.0	3.0	225.0
1963-64	143.0	39.0	17.0	198.0	4.0	35.0	6.0	243.0
1964-65	137.0	36.0	20.0	193.0	4.0	46.0	10.0	253.0
1965-66	137.0	37.0	29.0	203.0	3.0	38.0	12.0	256.0
1966-67	148.0	38.0	32.0	219.0	4.0	23.0	10.0	256.0
1967-68	143.0	38.0	39.0	220.0	4.0	28.0	6.0	258.0
1968-69	105.0	37.0	40.0	182.0	5.0	36.0	13.0	236.0
1969-70	59.0	30.0	50.0	139.0	4.0	36.0	27.0	206.0
1970-71	106.0	33.0	69.0	208.0	4.0	19.0	40.0	271.0
1971-72	99.1	42.6	73.2	214.9	2.5	21.4	23.6	262.4
1972-73	114.3	49.7	73.2	237.2	2.5	23.6	51.5	314.8
1973-74	106.7	44.1	62.1	212.9	3.1	22.7	24.2	262.9
1974-75	126.6	42.6	55.7	224.9	3.6	23.2	45.2	296.9
1975-76	144.8	44.1	53.9	242.8	2.8	12.1	30.8	288.5
1976-77	130.6	39.0	67.9	237.5	3.4	24.3	17.6	282.8
1977-78	138.8	26.4	61.0	226.2	3.8	21.7	27.7	281.4
1978-79	114.3	17.7	50.5	182.5	4.2	38.2	42.5	267.4
1979-80	125.7	21.3	73.2	220.2	5.2	22.9	67.5	315.8
1980-81	148.6	24.8	81.9	255.3	6.0	19.2	63.9	344.4
1981-82	152.4	23.1	71.4	246.9	7.2	26.0	22.7	302.8
1982-83	175.3	21.3	62.7	259.3	6.7	18.0	55.4	339.4
1983-84	169.6	23.1	64.4	257.1	7.0	29.8	96.8	390.7
1984-85	184.8	19.5	66.2	270.5	7.1	3.2	184.8	465.6
1985-86	207.9	17.9	59.7	285.5	2.5	19.4	3.0	310.4
1986-87	203.9	17.9	65.3	287.1	2.0	15.0	3.0	307.1
1987-88	202.6	19.6	56.0	278.2	3.8	13.2	4.7	299.9
1988-89	218.1	21.4	61.6	301.1	8.9	13.2	3.5	326.7
1989-90	228.2	17.9	59.7	305.8	7.7	15.0	2.9	331.4

TABLE 91: Seed Continued

Crop Year	All Wheat	Oats	Barley	SUBTOTAL	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				- thousand bushels -				
1955-56	3,410	3,020	2,370	8,800	80	1,070	90	10,040
1956-57	3,410	2,320	2,610	8,350	80	1,170	80	9,680
1957-58	3,840	2,220	2,430	8,490	80	750	60	9,380
1958-59	4,140	2,200	1,950	8,280	100	780	40	9,200
1959-60	4,340	2,320	1,430	8,090	100	960	100	9,240
1960-61	4,510	2,010	1,000	7,530	90	1,010	90	8,730
1961-62	4,710	2,780	960	8,460	140	900	100	9,590
1962-63	4,880	2,510	900	8,290	110	1,110	140	9,650
1963-64	5,240	2,530	760	8,540	150	1,390	250	10,330
1964-65	5,020	2,360	920	8,300	150	1,830	440	10,720
1965-66	5,040	2,370	1,340	8,750	120	1,500	510	10,880
1966-67	5,450	2,480	1,490	9,420	160	890	440	10,910
1967-68	5,270	2,450	1,790	9,510	140	1,110	270	11,030
1968-69	3,870	2,370	1,840	8,080	190	1,490	590	10,350
1969-70	2,170	1,950	2,300	6,420	150	1,490	1,210	9,270
1970-71	3,900	2,160	3,150	9,210	150	770	1,750	11,880
1971-72	3,640	2,760	3,360	9,770	100	840	1,040	11,750
1972-73	4,200	3,220	3,360	10,780	100	930	2,270	14,080
1973-74	3,920	2,860	2,850	9,630	120	890	1,070	11,720
1974-75	4,650	2,760	2,560	9,970	140	910	1,990	13,020
1975-76	5,320	2,860	2,480	10,660	110	480	1,360	12,600
1976-77	4,800	2,530	3,120	10,450	130	960	780	12,310
1977-78	5,100	1,840	2,800	9,740	150	850	1,220	11,970
1978-79	4,200	1,150	2,320	7,670	170	1,500	1,870	11,210
1979-80	4,620	1,380	3,360	9,360	200	900	2,980	13,440
1980-81	5,460	1,610	3,760	10,830	240	760	2,820	14,640
1981-82	5,600	1,500	3,280	10,380	280	1,020	1,000	12,680
1982-83	6,440	1,380	2,880	10,700	260	710	2,440	14,120
1983-84	6,230	1,500	2,960	10,690	280	1,170	4,270	16,400
1984-85	6,790	1,260	3,040	11,100	280	130	8,150	19,650
1985-86	7,640	1,160	2,740	11,540	100	760	130	12,540
1986-87	7,490	1,160	3,000	11,650	80	590	130	12,450
1987-88	7,440	1,270	2,570	11,290	150	520	210	12,160
1988-89	8,010	1,390	2,830	12,230	350	520	150	13,260
1989-90	8,380	1,160	2,740	12,290	300	590	130	13,310

NOTE: Seed usage estimate from 1955-56 to 1970-71 based on subsequent year's planted area.

TABLE 92: Historical Farm Supply and Disposition of Major Crops

1985-86	Durum Wheat	All Wheat	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				thousand tonnes				
SUPPLY								
Opening Stocks - Aug 1	5.0	40.0	50.0	70.0	10.0	3.0	5.0	178.0
Production	327.0	5 226.0	494.0	2 526.0	167.3	559.0	635.0	9 607.3
TOTAL SUPPLY	332.0	5 266.0	544.0	2 596.0	177.3	562.0	640.0	9 785.3
DISPOSITION								
Marketings	277.0	4 836.2	100.5	1 581.9	86.2	452.8	536.5	7 594.0
Seed Requirements	18.3	207.9	17.9	59.7	2.5	19.4	3.0	310.4
Feed, Waste & Dockage	34.7	181.9	325.6	824.4	63.6	69.8	80.5 1	545.9
Carryover, July 31	2.0	40.0	100.0	130.0	25.0	20.0	20.0	335.0
TOTAL DISPOSITION	332.0	5 266.0	544.0	2 596.0	177.3	562.0	640.0	9 785.3
				thousand bushels				
SUPPLY								
Opening Stocks - Aug 1	184	1,470	3,242	3,215	394	118	220	8,659
Production	12,015	192,024	32,032	116,017	6,586	22,006	27,999	396,663
TOTAL SUPPLY	12,199	193,494	35,274	119,232	6,980	22,124	28,219	405,323
DISPOSITION								
Marketings	10,178	177,701	6,517	72,655	3,393	17,824	22,582	300,672
Seed Requirements	672	7,639	1,161	2,742	98	764	132	12,536
Feed, Waste & Dockage	1,275	6,684	21,113	37,864	2,504	2,749	4,623	75,536
Carryover, July 31	73	1,470	6,484	5,971	984	787	882	16,578
TOTAL DISPOSITION	12,199	193,494	35,274	119,232	6,980	22,124	28,219	405,323

1986-87	Durum Wheat	All Wheat	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				thousand tonnes				
SUPPLY								
Opening Stocks - Aug 1	2.0	40.0	100.0	130.0	25.0	20.0	20.0	335.0
Production	373.0	4 477.5	463.0	1 851.0	60.9	572.0	578.0	8 002.4
TOTAL SUPPLY	375.0	4 517.5	563.0	1 981.0	85.9	592.0	598.0	8 337.4
DISPOSITION								
Marketings	284.6	3 455.3	84.6	1 009.5	38.8	447.1	525.8	5 561.1
Seed Requirements	16.0	203.9	17.9	65.3	2.0	15.0	3.0	307.1
Feed, Waste & Dockage	39.4	328.3	380.5	746.2	20.1	79.9	59.2	1 614.2
Carryover, July 31	35.0	530.0	80.0	160.0	25.0	50.0	10.0	855.0
TOTAL DISPOSITION	375.0	4 517.5	563.0	1 981.0	85.9	592.0	598.0	8 337.4
				thousand bushels				
SUPPLY								
Opening Stocks - Aug 1	73	1,470	6,484	5,971	984	787	882	16,578
Production	13,706	164,521	30,022	85,015	2,397	22,518	25,485	329,958
TOTAL SUPPLY	13,779	165,991	36,506	90,985	3,382	23,305	26,367	346,536
DISPOSITION								
Marketings	10,457	126,960	5,486	46,367	1,527	17,602	23,132	220,074
Seed Requirements	588	7,492	1,161	2,999	79	591	132	12,453
Feed, Waste & Dockage	1,448	12,064	24,672	34,271	792	3,145	3,662	78,605
Carryover, July 31	1,286	19,474	5,187	7,349	984	1,968	441	35,404
TOTAL DISPOSITION	13,779	165,991	36,506	90,985	3,382	23,305	26,367	346,536

TABLE 92: Continued

1987-88	Durum Wheat	All Wheat	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				thousand tonnes				
SUPPLY								
Opening Stocks - Aug 1	35.0	530.0	80.0	160.0	25.0	50.0	10.0	855.0
Production	259.0	3 946.5	416.0	1 938.0	45.7	406.0	585.0	7 337.2
TOTAL SUPPLY	294.0	4 476.5	496.0	2 098.0	70.7	456.0	595.0	8 192.2
DISPOSITION								
Marketings	176.8	3 465.9	107.6	893.9	50.0	334.1	493.6	5 345.1
Seed Requirements	13.7	202.6	19.6	56.0	3.8	13.2	4.7	299.9
Feed, Waste & Dockage	83.5	548.0	288.8	838.1	6.9	48.7	76.7	1 807.2
Carryover, July 31	20.0	260.0	80.0	310.0	10.0	60.0	20.0	740.0
TOTAL DISPOSITION	294.0	4 476.5	496.0	2 098.0	70.7	456.0	595.0	8 192.2
				thousand bushels				
SUPPLY								
Opening Stocks - Aug 1	1,286	19,474	5,187	7,349	984	1,968	441	35,404
Production	9,517	145,010	26,974	89,010	1,799	15,983	25,794	304,571
TOTAL SUPPLY	10,803	164,485	32,162	96,359	2,783	17,951	26,235	339,975
DISPOSITION								
Marketings	6,495	127,351	6,977	41,056	1,968	13,153	20,777	211,281
Seed Requirements	503	7,444	1,271	2,572	150	520	207	12,164
Feed, Waste & Dockage	3,070	20,136	18,726	38,493	272	1,917	4,369	83,913
Carryover, July 31	735	9,553	5,187	14,238	394	2,362	882	32,616
TOTAL DISPOSITION	10,803	164,485	32,162	96,359	2,783	17,951	26,235	339,975

1988-89	Durum Wheat	All Wheat	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				thousand tonnes				
SUPPLY								
Opening Stocks - Aug 1	20.0	260.0	80.0	310.0	10.0	60.0	20.0	740.0
Production	131.0	2 400.9	224.0	1 089.0	58.4	198.0	612.0	4 582.3
TOTAL SUPPLY	151.0	2 660.9	304.0	1 399.0	68.4	258.0	632.0	5 322.3
DISPOSITION								
Marketings	111.2	2 288.6	94.3	646.5	50.3	186.5	544.7	3 810.9
Seed Requirements	16.0	218.1	21.4	61.6	8.9	13.2	3.5	326.7
Feed, Waste & Dockage	18.8	104.2	158.3	595.9	4.2	43.3	43.8	949.7
Carryover, July 31	5.0	50.0	30.0	95.0	5.0	15.0	40.0	235.0
TOTAL DISPOSITION	151.0	2 660.9	304.0	1 399.0	68.4	258.0	632.0	5 322.3
				thousand bushels				
SUPPLY								
Opening Stocks - Aug 1	735	9,553	5,187	14,238	394	2,362	882	32,616
Production	4,813	88,219	14,525	50,017	2,299	7,795	26,984	189,838
TOTAL SUPPLY	5,548	97,772	19,712	64,255	2,693	10,157	27,866	222,454
DISPOSITION								
Marketings	4,087	84,092	6,115	29,695	1,980	7,340	22,929	152,151
Seed Requirements	588	8,014	1,388	2,829	350	520	154	13,255
Feed, Waste & Dockage	690	3,829	10,265	27,368	166	1,706	3,019	46,352
Carryover, July 31	184	1,837	1,945	4,363	197	591	1,764	10,697
TOTAL DISPOSITION	5,548	97,772	19,712	64,255	2,693	10,157	27,866	222,454

TABLE 92: Continued

1989-90	Durum Wheat	All Wheat	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)	TOTAL
				thousand tonnes				
SUPPLY								
Opening Stocks - Aug 1	5.0	50.0	30.0	95.0	5.0	15.0	40.0	235.0
Production	234.0	4 063.1	339.0	1 546.0	198.0	221.0	399.0	6 766.1
TOTAL SUPPLY	239.0	4 113.1	369.0	1 641.0	203.0	236.0	439.0	7 001.1
DISPOSITION								
Marketings	211.8	3 760.4	106.7	787.0	123.3	186.1	366.7	5 330.2
Seed Requirements	16.0	228.2	17.9	59.7	7.7	15.0	2.9	331.4
Feed, Waste & Dockage	11.2	84.5	194.4	664.3	52.0	29.9	54.4	1 079.5
Carryover, July 31	0.0	40.0	50.0	130.0	20.0	5.0	15.0	260.0
TOTAL DISPOSITION	239.0	4 113.1	369.0	1 641.0	203.0	236.0	439.0	7 001.1
				thousand bushels				
SUPPLY								
Opening Stocks - Aug 1	184	1,837	1,945	4,363	197	591	1,764	10,697
Production	8,598	149,295	21,981	71,006	7,795	8,700	17,593	276,370
TOTAL SUPPLY	8,782	151,131	23,927	75,369	7,992	9,291	19,356	287,066
DISPOSITION								
Marketings	7,782	138,172	6,917	36,144	4,856	7,328	16,169	209,585
Seed Requirements	588	8,385	1,161	2,742	303	591	128	13,309
Feed, Waste & Dockage	412	3,105	12,607	30,512	2,045	1,175	2,398	51,844
Carryover, July 31	0	1,470	3,242	5,971	787	197	661	12,328
TOTAL DISPOSITION	8,782	151,131	23,927	75,369	7,992	9,291	19,356	287,066

TABLE 93: Historical Production Value Summary of Livestock

Year	Cattle	Hogs	Sheep	Dairy	Poultry	Total*
			- thousand dollars -			
1956	32,384	16,560	510	29,641	24,175	103,270
1957	35,350	20,915	577	29,473	23,000	109,315
1958	51,552	30,143	608	32,307	25,362	139,972
1959	49,764	24,465	559	31,430	23,487	129,705
1960	50,142	17,820	614	30,959	22,031	121,566
1961	51,816	25,662	701	30,952	23,393	132,524
1962	53,048	19,614	609	30,962	21,907	126,140
1963	56,518	23,688	628	30,730	23,860	135,424
1964	54,120	25,740	629	29,986	23,856	134,331
1965	54,929	29,760	552	30,425	26,843	142,509
1966	66,341	38,324	500	29,999	30,179	165,343
1967	66,220	37,048	455	32,699	25,975	162,397
1968	64,944	35,010	400	33,775	28,522	162,651
1969[R]	85,188	56,862	290	32,797	33,385	208,522
1970	92,303	63,826	183	32,063	33,294	221,669
1971	98,978	46,892	391	32,119	27,277	205,657
1972	112,880	71,940	470	35,980	31,879	253,149
1973	155,880	106,190	604	41,731	50,535	354,940
1974[R]	147,840	79,402	621	57,592	53,327	338,782
1975[R]	122,208	89,610	546	66,796	46,226	325,386
1976[R]	113,004	87,591	406	70,360	58,455	329,816
1977[R]	129,168	85,002	423	71,455	58,723	344,771
1978[R]	180,780	110,000	620	67,780	61,437	420,617
1979[R]	258,060	131,075	712	73,176	73,186	536,209
1980[R]	248,880	118,064	886	85,606	80,171	533,607
1981[R]	191,265	138,208	782	96,938	95,548	522,741
1982[R]	188,692	170,408	937	106,036	95,419	561,492
1983[R]	203,148	166,750	931	108,734	95,284	574,847
1984[R]	240,500	191,261	960	116,172	103,904	652,797
1985[R]	261,151	196,846	1,539	113,305	103,443	676,284
1986[R]	296,215	254,533	1,947	117,410	103,633	773,738
1987[R]	243,390	264,000	1,932	121,317	104,215	734,854
1988[R]	290,000	228,000	1,801	129,165	113,075	762,041
1989[R]	245,000	219,000	1,407	131,825	121,757	720,989
1990	333,000	247,000	1,224	128,459	123,074	835,257

* Includes value of other livestock commencing in 1989

TABLE 94: Historical Production and Value of Cattle

Year	Commerical Marketings	Local Slaugh-terings	Inventory Change	Inshipments (minus)*	Total	Value** Per Animal	Total Value
			- thousand animals -			$	($000)
1956	292	26	41	7	352	92	32,384
1957	346	32	-22	6	350	101	35,350
1958	356	26	-12	12	358	144	51,552
1959	300	23	45	20	348	143	49,764
1960	317	22	53	26	366	137	50,142
1961	402	26	-16	31	381	136	51,816
1962	313	23	73	60	349	152	53,048
1963	347	24	66	70	367	154	56,518
1964	399	24	49	62	410	132	54,120
1965	528	28	-62	81	413	133	54,929
1966	508	28	-42	87	407	163	66,341
1967	500	28	-52	91	385	172	66,220
1968	468	28	-57	70	369	176	64,944
1969	392	27	84	131	372	229	85,188
1970	416	26	45	104	383	241	92,303
1971	417	26	28	62	409	242	98,978
1972	432	26	42	85	415	272	112,880
1973	429	28	73	97	433	360	155,880
1974	398	26	71	47	448	330	147,840
1975	512	34	-38	52	456	268	122,208
1976	567	31	-40	120	438	258	113,004
1977	639	26	-58	139	468	276	129,168
1978	523	23	-91	62	393	460	180,780
1979	444	21	-43	31	391	660	258,060
1980	444	22	-7	51	408	610	248,880
1981	367	20	-30	46	311	615	191,265
1982	435	15	-80	48	322	586	188,692
1983	378	20	-20	36	342	594	203,148
1984	411	18	-33	28	368	653	240,500
1985	434	9	-27	23	393	664	261,151
1986	459	10	0	25	444	667	296,215
1987	420	10	-28	21	381	640	243,390
1988	425	10	-15	25	395	734	290,000
1989	378	8	0	0	386	634	245,000
1990	403	8	26	0	437	762	333,000

* Inshipments are included in commercial marketings from 1989.

** Rounded to nearest dollar.

TABLE 95: Historical Commercial Marketings of Cattle - Manitoba Origin

Year	Under 1 Year		1 Year and Over		Total		
	Animals (000)	Value ($000)	Animals (000)	Value ($000)	Animals (000)	Value Each $	Value ($000)
1956	89	3,810	203	23,114	292	92	26,924
1957	98	4,306	248	30,533	346	101	34,839
1958	101	7,845	255	43,410	356	144	51,255
1959	89	6,675	211	36,162	300	143	42,837
1960	87	6,197	230	37,387	317	137	43,584
1961	111	8,721	291	46,143	402	136	54,864
1962	93	7,921	220	39,778	313	152	47,699
1963	90	6,776	257	46,581	347	154	53,357
1964	109	6,016	290	46,649	399	132	52,665
1965	165	11,068	363	59,234	528	133	70,302
1966	156	13,081	352	69,811	508	163	82,892
1967	165	15,135	335	70,886	500	172	86,021
1968	147	13,065	321	69,510	468	176	82,575
1969	94	10,682	298	79,123	392	229	89,805
1970	97	13,738	319	86,454	416	241	100,192
1971	109	15,674	308	85,169	417	242	100,843
1972	108	16,621	324	100,766	432	272	117,387
1973	105	24,044	324	130,370	429	360	154,414
1974	73	11,460	325	119,880	398	330	131,340
1975	91	9,874	421	127,342	512	268	137,216
1976	102	11,901	465	134,385	567	258	146,286
1977	122	15,494	517	160,870	639	276	176,364
1978	76	20,748	447	219,832	523	460	240,580
1979	73	32,131	371	260,909	444	660	293,040
1980	70	25,054	374	245,786	444	610	270,840
1981	47	14,095	320	211,610	367	615	225,705
1982	68	21,796	367	233,114	435	586	254,910
1983	72	35,576	306	188,956	378	594	224,532
1984	42	14,322	369	254,061	411	653	268,383
1985	56	19,712	378	268,464	434	664	288,176
1986	116	49,519	343	256,634	459	667	306,153
1987	127	72,340	293	196,460	420	640	268,800
1988	116	68,900	309	243,000	425	734	311,900
1989	110	60,000	268	179,600	378	634	239,600
1990	66	39,500	337	267,600	403	762	307,100

TABLE 96: Historical Production and Value of Hogs

Year	Commercial Marketings	Local Slaughterings	Inventory Change	Total	Value* Per Animal ($)	Total Value ($000)
		- thousand animals -				
1956	388	70	-44	414	40	16,560
1957	332	64	49	445	47	20,915
1958	464	54	183	701	43	30,143
1959	654	87	-42	699	35	24,465
1960	506	76	-87	495	36	17,820
1961	519	66	26	611	42	25,662
1962	467	60	-60	467	42	19,614
1963	437	50	77	564	42	23,688
1964	582	52	26	660	39	25,740
1965	579	49	-8	620	48	29,760
1966	595	47	95	737	52	38,324
1967	766	56	20	842	44	37,048
1968	751	53	-26	778	45	35,010
1969	778	50	225	1,053	54	56,862
1970	1,093	50	215	1,358	47	63,826
1971	1,352	57	-175	1,234	38	46,892
1972	1,238	50	20	1,308	55	71,940
1973	1,277	55	-37	1,295	82	106,190
1974	1,270	53	-250	1,073	74	79,402
1975	886	52	-68	870	103	89,610
1976	835	46	22	903	97	87,591
1977	852	37	25	914	93	85,002
1978	895	40	65	1,000	110	110,000
1979	1,084	36	105	1,225	107	131,075
1980	1,250	30	-24	1,256	94	118,064
1981	1,220	23	-9	1,234	112	138,208
1982	1,229	24	0	1,253	136	170,408
1983[R]	1,358	20	72	1,450	115	166,750
1984	1,583	26	40	1,649	116	191,261
1985	1,777	20	-55	1,742	113	196,846
1986	1,743	21	41	1,805	141	254,533
1987	1,825	21	67	1,913	138	264,000
1988	2,108	21	36	2,165	105	228,000
1989	2,178	21	-30	2,169	101	219,000
1990	1,957	21	16	1,994	124	247,000

* Values rounded to nearest dollar.

TABLE 97: Historical Commercial Hog Marketings - Manitoba Origin

Year	Animals (000)	Value Each $	Total Value ($000)
1956	388	40	15,520
1957	332	47	15,604
1958	464	43	19,952
1959	654	35	22,890
1960	506	36	18,216
1961	519	42	21,798
1962	467	42	19,614
1963	437	42	18,354
1964	582	39	22,698
1965	579	48	27,792
1966	595	52	30,940
1967	766	44	33,704
1968	751	45	33,795
1969	778	54	42,012
1970	1,093	47	51,371
1971	1,352	38	51,376
1972	1,238	55	68,090
1973	1,277	82	104,714
1974	1,270	74	93,980
1975	886	103	91,258
1976	835	97	80,995
1977	852	93	79,236
1978	895	110	98,450
1979	1,084	107	115,988
1980	1,250	94	117,500
1981	1,220	112	136,640
1982	1,229	136	167,144
1983	1,358	115	156,170
1984	1,583	116	183,628
1985	1,777	113	200,801
1986	1,743	141	245,763
1987	1,825	138	251,850
1988	2,108	105	221,340
1989	2,178	101	219,980
1990	1,957	124	242,670

TABLE 98: Historical Production and Value of Sheep and Wool

Year	Sheep and Lamb Marketings (Slaughterings & Net Exports)		Wool			
	Animals (000)	Value ($000)	Kilograms Shorn (000)	Pounds Shorn (000)	Value ($000)	Total Value ($000)
1956	33	425	117	259	85	510
1957	34	496	102	224	81	577
1958	34	507	115	254	101	608
1959	32	455	114	252	104	559
1960	37	502	112	247	112	614
1961	42	561	128	283	140	701
1962	36	492	116	256	117	609
1963	34	516	107	236	112	628
1964	33	528	96	211	101	629
1965	28	439	85	188	113	552
1966	24	422	74	163	78	500
1967	23	384	74	163	71	455
1968	16	337	62	137	63	400
1969	10	240	58	128	50	290
1970	6	126	68	149	57	183
1971	17	357	68	150	34	391
1972	19	437	60	132	33	470
1973	18	507	63	138	97	604
1974	18	569	65	142	52	621
1975	15	520	44	98	26	546
1976	11	374	38	84	32	406
1977	10	388	43	95	35	423
1978	11	570	49	108	50	620
1979	13	655	39	85	57	712
1980	17	806	52	116	80	886
1981	18	700	60	133	82	782
1982	22	883	57	125	54	937
1983	20	874	62	136	57	931
1984	21	895	53	117	65	960
1985	20	1,494	47	104	45	1,539
1986	23	1,906	39	85	41	1,947
1987	21	1,883	37	81	49	1,932
1988[R]	21	1,717	44	98	84	1,801
1989[R]	21	1,331	52	114	76	1,407
1990	22	1,165	52	114	59	1,224

TABLE 99: Historical Production and Value of Dairy Products

Year	Milk Production		Factory Products		
	Whole Milk or Equivalent (000 kl)	Total Farm Value ($000)	Creamery Butter (tonnes)	Cheddar Cheese (tonnes)	Ice Cream* (kilolitres)
1956	471	29,641	10 596	485	7 569
1957	466	29,473	10 683	573	7 683
1958	492	32,307	12 092	314	7 965
1959	478	31,430	11 626	175	8 587
1960	468	30,959	11 239	221	9 547
1961	464	30,952	11 466	250	10 342
1962	466	30,962	11 614	286	10 760
1963	458	30,730	11 295	371	12 297
1964	442	29,986	10 688	428	13 333
1965	417	30,425	9 891	519	13 397
1966	382	29,999	8 559	654	13 220
1967	366	32,699	7 743	961	14 365
1968	367	33,775	8 009	909	14 356
1969	363	32,797	7 765	1 467	14 734
1970	351	32,063	7 100	1 919	15 284
1971	338	32,119	6 225	2 642	14 911
1972	355	35,980	5 906	4 324	15 465
1973	352	41,731	5 446	4 424	16 020
1974[R]	333	57,592	4 611	4 248	17 556
1975	321	66,796	4 745	4 627	19 266
1976	317	70,360	4 055	4 616	20 448
1977	318	71,455	4 131	4 885	18 872
1978[R]	314	67,780	4 276	5 122	18 774
1979	280	73,176	4 205	6 011	19 568
1980	288	85,606	4 199	6 857	20 941
1981	289	96,938	3 774	6 465	21 593
1982	294	106,036	4 266	4 788	20 660
1983	292	108,734	3 857	6 702	20 896
1984	297	116,172	3 847	6 906	19 277
1985	290	113,305	3 746	6 465	18 556
1986	291	117,410	3 859	5 859	16 962
1987	307	121,317	4 147	6 [illegible]39	17 072
1988[R]	311	129,165	4 506	6 100	16 210
1989	302	131,825	4 285	6 192	16 335
1990	293	128,459	4 554	5 895	15 799

* Approximately two parts of ice-cream are made from one part of ice-cream mix.

TABLE 99: Continued

Year	Milk Production		Factory Products		
	Whole Milk or Equivalent (million lb)	Total Farm Value ($000)	Creamery Butter (000 lb)	Cheddar Cheese (000 lb)	Ice Cream* (000 gals)
1956	1,079	29,641	23,360	1,069	1,665
1957	1,066	29,473	23,552	1,263	1,690
1958	1,127	32,307	26,657	693	1,752
1959	1,093	31,430	25,630	385	1,889
1960	1,070	30,959	24,778	487	2,100
1961	1,062	30,952	25,278	551	2,275
1962	1,066	30,962	25,605	631	2,367
1963	1,049	30,730	24,901	817	2,705
1964	1,011	29,986	23,563	944	2,933
1965	955	30,425	21,806	1,145	2,947
1966	875	29,999	18,868	1,441	2,908
1967	837	32,699	17,071	2,118	3,160
1968	840	33,775	17,656	2,004	3,158
1969	831	32,797	17,119	3,235	3,241
1970	804	32,063	15,652	4,230	3,362
1971	774	32,119	13,723	5,824	3,280
1972	813	35,980	13,020	9,532	3,402
1973[R]	805	41,731	12,006	9,753	3,524
1974	763	57,592	10,165	9,366	3,862
1975	735	66,796	10,462	10,201	4,238
1976[R]	725	70,360	8,940	10,176	4,498
1977[R]	728	71,455	9,107	10,769	4,151
1978[R]	718	67,780	9,427	11,290	4,130
1979[R]	641	73,176	9,270	13,252	4,304
1980[R]	659	85,606	9,257	15,117	4,606
1981[R]	661	96,938	8,320	14,253	4,750
1982[R]	673	106,036	9,405	10,556	4,545
1983[R]	668	108,734	8,503	14,776	4,597
1984[R]	680	116,172	8,481	15,225	4,240
1985[R]	664	113,305	8,258	14,253	4,082
1986[R]	666	117,410	8,507	12,917	3,731
1987[R]	703	121,317	9,142	13,975	3,755
1988[R]	712	129,165	9,934	13,448	3,566
1989[R]	691	131,825	9,447	13,651	3,593
1990	670	128,459	10,040	12,996	3,475

TABLE 100: Historical Production Value Summary of Poultry

Year	Eggs	Meat	Total
		- thousand dollars -	
1956	11,573	12,602	24,175
1957	10,882	12,118	23,000
1958	11,327	14,035	25,362
1959	10,160	13,327	23,487
1960	9,990	12,041	22,031
1961	10,079	13,314	23,393
1962	10,467	11,440	21,907
1963	12,119	11,741	23,860
1964	11,519	12,337	23,856
1965	13,429	13,414	26,843
1966	15,877	14,302	30,179
1967	14,378	11,597	25,975
1968	16,624	11,898	28,522
1969	19,944	13,441	33,385
1970	18,679	14,615	33,294
1971	14,176	13,101	27,277
1972	15,931	15,948	31,879
1973	26,992	23,543	50,535
1974	28,280	25,047	53,327
1975	25,774	20,452	46,226
1976	30,693	27,762	58,455
1977	30,232	28,491	58,723
1978	31,805	29,632	61,437
1979	34,978	38,208	73,186
1980	40,069	40,102	80,171
1981	47,940	47,608	95,548
1982[R]	46,054	49,365	95,419
1983[R]	47,375	47,909	95,284
1984[R]	51,808	52,096	103,904
1985[R]	51,323	52,120	103,443
1986[R]	50,471	53,162	103,633
1987[R]	49,731	54,484	104,215
1988[R]	54,447	58,628	113,075
1989[R]	62,207	59,550	121,757
1990	59,992	63,082	123,074

TABLE 101: Historical Livestock Prices by Grade, Winnipeg

Year	LIVE CATTLE						HOGS	SHEEP
	Choice Slaughter Steers (A1,A2)*	Good Slaughter Cows (D1,D2)	Total Slaughter (+227 kg)	Good and Choice Veal	Good Feeder Steers (350-400 kg)	Steer Calves (150-200 kg)	Index 100 Dressed	All Live Sheep & Lambs
	- cents per kilogram -							
1956	42.0	24.1	29.3	51.2	35.7	32.8	51.6	32.8
1957	41.7	26.2	31.4	52.1	37.5	37.4	62.2	35.9
1958	50.6	36.6	42.6	62.7	47.6	56.5	55.6	37.6
1959	54.2	37.6	44.4	70.0	50.5	53.8	47.0	35.7
1960	49.8	34.2	40.4	67.1	46.3	47.9	47.7	34.8
1961	48.5	34.2	40.9	66.9	47.3	52.4	54.8	33.0
1962	56.7	37.9	45.9	73.5	53.8	60.5	56.6	35.6
1963	52.6	37.7	44.5	71.5	51.2	57.0	54.7	37.5
1964	—	34.0	39.7	67.7	46.0	49.0	51.9	38.8
1965	53.5	32.6	40.0	65.7	48.6	51.1	67.6	42.2
1966	57.1	41.6	47.2	75.7	58.3	63.1	73.7	44.1
1967	61.3	44.0	50.0	85.7	58.5	67.0	60.7	41.6
1968	61.0	43.1	51.2	83.6	59.2	68.0	62.0	47.3
1969	66.1	52.8	60.4	92.7	70.6	84.9	78.2	53.2
1970	68.5	51.6	62.5	103.0	72.8	86.9	64.4	59.1
1971	73.1	50.9	63.4	103.8	74.4	92.2	50.4	54.6
1972	78.4	58.3	70.2	117.5	85.5	102.0	75.0	61.3
1973	99.5	77.3	85.8	146.5	103.1	120.9	113.1	74.5
1974	107.5	59.8	81.5	155.0	89.6	92.4	101.7	99.2
1975	96.6	46.9	63.1	97.5	78.0	71.5	137.9	108.5
1976	86.5	50.5	61.0	103.7	79.4	80.8	130.1	110.4
1977	85.7	55.3	65.9	97.8	83.0	84.2	125.2	140.3
1978	127.9	88.0	101.9	163.2	129.3	141.6	149.5	130.3
1979	167.8	125.4	142.5	243.4	177.4	225.6	141.4	182.8
1980	167.7	114.7	135.2	243.7	167.6	195.2	124.9	146.5
1981	168.4	106.0	130.8	238.9	159.9	162.9	148.6	120.9
1982	165.7	102.3	124.3	238.0	158.3	164.6	177.7	101.3
1983	159.8	104.3	119.5	237.3	159.6	176.9	151.0	110.8
1984	171.2	106.9	126.5	241.1	165.3	184.9	154.5	112.9
1985	168.3	107.5	121.0	220.7	165.8	182.7	146.1	123.5
1986	168.9	110.4	122.9	218.2	167.6	210.6	178.8	143.8
1987[R]	182.5	122.1	138.6	256.5	193.7	256.5	172.3	174.3
1988[R]	178.0	122.2	137.1	264.9	196.6	250.1	132.7	132.4
1989[R]	177.0	120.7	135.8	244.4	190.6	246.5	130.0	139.7
1990	181.5	130.2	144.9	—	196.7	256.9	157.0	118.4

* Commencing in 1973: A1,A2 grade.

TABLE 101: Continued

Year	LIVE CATTLE						HOGS	SHEEP
	Choice Slaughter Steers (A1,A2)*	Good Slaughter Cows (D1,D2)	Total Slaughter (+500 lb)	Good and Choice Veal	Good Feeder Steers (800-900 lb)	Steer Calves (400-500 lb)	Index 100 Dressed	All Live Sheep & Lambs
	- cents per pound -							
1956	19.05	10.64	13.17	21.85	15.15	14.86	27.85	15.57
1957	18.93	11.90	14.23	23.65	17.00	16.98	28.20	16.28
1958	22.93	16.60	19.31	28.45	21.60	25.64	25.20	17.06
1959	24.57	17.05	20.12	31.75	22.90	24.39	21.30	16.19
1960	22.60	15.50	18.32	30.45	21.00	21.74	21.65	15.78
1961	22.00	15.50	18.55	30.35	21.45	23.78	24.85	14.95
1962	25.70	17.20	20.80	33.35	24.40	27.42	25.65	16.15
1963	23.85	17.10	20.20	32.45	23.20	25.85	24.80	17.00
1964	—	15.40	18.00	30.70	20.85	22.21	23.55	17.60
1965	24.25	14.80	18.15	29.80	22.05	23.20	30.65	19.15
1966	25.90	18.85	21.40	34.35	25.55	28.60	33.45	20.00
1967	27.80	19.95	22.70	38.85	26.55	30.40	27.55	18.85
1968	27.65	19.55	23.20	37.90	26.85	30.85	28.10	21.45
1969	30.00	23.95	27.40	42.05	32.00	38.50	35.45	24.15
1970	31.05	23.42	28.35	46.70	33.00	39.42	29.20	26.80
1971	33.15	23.10	28.75	47.10	33.75	41.80	22.85	24.75
1972	35.54	26.45	31.86	53.30	38.80	46.28	34.00	27.80
1973	45.14	35.06	38.91	66.44	46.76	54.85	51.31	39.93
1974	48.76	27.12	36.97	70.30	40.62	41.90	46.12	45.00
1975	43.80	21.27	28.63	44.24	35.37	32.41	62.55	49.22
1976	39.25	22.92	27.67	47.04	36.02	36.66	59.03	50.10
1977	38.89	25.10	29.88	44.37	37.66	38.21	56.78	63.64
1978	58.01	39.93	46.21	74.04	58.67	64.23	67.83	59.12
1979	76.11	56.88	64.62	110.39	80.49	102.34	64.15	82.94
1980	76.06	52.05	61.33	110.56	76.04	88.53	56.67	66.44
1981	76.37	48.10	59.31	108.37	72.55	73.88	67.40	54.82
1982	75.17	46.42	56.38	107.97	71.81	74.65	80.61	45.95
1983	72.50	47.29	54.21	107.65	72.38	80.22	68.49	50.27
1984	77.67	48.49	57.39	109.38	74.98	83.89	70.10	51.19
1985	76.34	48.75	54.89	100.12	75.21	82.89	66.25	56.04
1986	76.62	50.07	55.77	98.96	76.03	95.54	81.10	65.23
1987[R]	82.80	55.39	62.87	116.36	87.94	116.34	78.16	79.04
1988[R]	80.76	55.45	62.21	120.17	89.17	113.45	60.19	60.04
1989[R]	80.28	54.76	61.58	110.85	86.44	111.83	58.97	63.36
1990	82.33	59.05	65.74	—	89.24	116.53	71.22	53.71

* Commencing in 1973: A1,A2 grade.

TABLE 102: Historical Numbers of Livestock on Farms - July 1

Year	Milk Cows Only	Total Cattle & Calves	Hogs	Sheep	Hens and Chickens*	Turkeys
			- thousand animals or birds -			
1956	223	872	311	73	5,990	664
1957	216	885	314	72	6,350	772
1958	209	868	453	78	6,980	932
1959	202	892	503	74	7,000	1,214
1960	198	931	371	76	6,400	880
1961	196	996	432	81	6,267	1,145
1962	185	982	334	76	5,465	970
1963	175	1,066	391	73	5,700	970
1964	172	1,152	460	72	6,270	885
1965	163	1,184	421	61	5,820	1,000
1966	150	1,151	499	51	5,844	1,091
1967	137	1,099	589	45	6,330	925
1968	129	1,029	547	38	6,380	870
1969	121	1,006	615	37	7,340	825
1970	116	1,104	907	40	8,540	900
1971	110	1,138	943	42	7,613	1,033
1972	105	1,210	893	36	7,530	1,000
1973	101	1,247	956	33	4,310	NA
1974	99	1,386	826	26	4,095	NA
1975	96	1,458	582	23	3,787	NA
1976	92	1,411	632	21	3,470	NA
1977	91	1,373	650	19	NA	NA
1978	88	1,262	683	20	NA	NA
1979	80	1,227	804	26	NA	NA
1980	80	1,186	823	28	NA	NA
1981	83	1,162	865	35	6,155	697
1982	80	1,125	865	38	NA	NA
1983	79	1,063	948	39	NA	NA
1984	78	985	1,060	37	NA	NA
1985	78	1,070	1,170	32	NA	NA
1986[R]	65	1,115	1,089	25	6,298	730
1987[R]	65	1,070	1,148	23	7,005	854
1988[R]	66	1,075	1,250	22	6,757	857
1989[R]	66	1,065	1,265	23	6,537	823
1990	64	1,075	1,221	24	6,574	895

* Hens and pullets only commencing in 1973.

OTHER PRODUCTS

TABLE 103: Historical Production Value Summary of Other Farm Products

Year	P.M.U. Operations	Honey & Beeswax[1]	Fur[2]	Forest	Total
		- thousand dollars -			
1956		896	3,622	411	4,929
1957		869	3,493	385	4,747
1958		812	3,308	359	4,479
1959		820	3,514	333	4,667
1960		873	3,078	307	4,258
1961		987	2,798	267	4,052
1962		773	3,097	226	4,096
1963		1,117	3,115	186	4,418
1964		1,017	3,111	145	4,273
1965		1,112	4,363	105	5,580
1966[R]		1,379	3,379	117	4,875
1967[R]	1,072	1,586	3,102	164	5,924
1968[R]	1,290	685	2,827	200	5,002
1969[R]	910	1,469	2,322	232	4,933
1970[R]	875	1,520	1,348	250	3,993
1971[R]	625	1,355	1,088	279	3,347
1972[R]	660	3,010	1,081	352	5,103
1973[R]	1,069	3,874	1,200	400	6,543
1974[R]	2,000	3,517	976	378	6,871
1975[R]	3,200	3,176	989	362	7,727
1976[R]	3,700	4,798	1,320	482	10,300
1977[R]	3,200	5,217	1,600	262	10,279
1978[R]	2,600	8,019	2,614	258	13,491
1979[R]	3,000	9,264	2,568	298	15,130
1980[R]	2,300	9,278	2,157	280	14,015
1981[R]	2,860	10,748	2,119	1,083	16,810
1982[R]	4,930	10,963	1,839	1,054	18,786
1983[R]	5,460	10,717	1,878	1,157	19,212
1984[R]	8,617	10,553	1,582	1,137	21,889
1985[R]	10,521	11,749	6,951	1,195	30,416
1986[R]	12,920	10,610	6,867	1,322	31,719
1987[R]	12,260	9,903	10,558	1,491	34,212
1988[R]	12,053	8,437	7,297	1,516	29,303
1989[R]	16,024	7,744	3,746	1,569	29,083
1990	17,002	10,205	2,386	1,562	31,155

[1] Includes leafcutting bees commencing in 1983.

[2] Includes wildlife pelts commencing in 1985.

RESOURCES

TABLE 104: Census Farm Area and Land Use, 1941-1986

Year	Improved Land					Unimproved Land	Total Land
	Crops	Pasture	Fallow	Other	Total		
	- thousand hectares -						
1941	2 561	185	1 120	112	3 978	2 858	6 836
1946	2 608	208	1 036	103	3 955	2 791	6 746
1951	2 968	237	1 019	131	4 355	2 820	7 175
1956	3 110	241	1 144	140	4 635	2 622	7 257
1961	3 112	291	1 307	132	4 842	2 511	7 353
1966	3 518	312	1 080	127	5 037	2 686	7 723
1971	3 691	296	1 074	120	5 181	2 511	7 692
1976	3 848	311	934	124	5 217	2 483	7 700
1981	4 420	353	598	133	5 504	2 112	7 616
1986	4 519	275	509	100	5 403	2 337	7 740

Year	Improved Land					Unimproved Land	Total Land
	Crops	Pasture	Fallow	Other	Total		
	- thousand acres -						
1941	6,328	456	2,767	278	9,829	7,062	16,891
1946	6,445	514	2,560	254	9,773	6,898	16,671
1951	7,335	585	2,519	323	10,762	6,968	17,730
1956	7,686	595	2,828	345	11,454	6,478	17,932
1961	7,689	720	3,230	325	11,964	6,206	18,170
1966	8,694	770	2,669	313	12,446	6,638	19,084
1971	9,122	731	2,655	296	12,804	6,204	19,008
1976	9,508	769	2,308	306	12,891	6,135	19,026
1981	10,923	871	1,479	328	13,601	5,218	18,819
1986	11,168	679	1,258	246	13,351	5,775	19,126

TABLE 105: Census Farm Numbers and Size, 1941-1986

Year	Farms	Average Size	
		Total Hectares	Improved Hectares
1941	58,024	118	68
1946	54,448	124	72
1951	52,383	137	83
1956	49,201	147	94
1961	43,306	170	112
1966	39,747	194	127
1971	34,981	220	148
1976	32,104	240	162
1981	29,442	259	187
1986	27,336	283	198

TABLE 105: Continued

Year	Farms	Average Size	
		Total Acres	Improved Acres
1941	58,024	291	169
1946	54,448	306	179
1951	52,383	338	205
1956	49,201	364	233
1961	43,306	420	276
1966	39,747	480	313
1971	34,981	543	366
1976	32,104	593	402
1981	29,442	639	462
1986	27,336	700	488

TABLE 106: Census Farm Area by Tenure, 1941-1986

Year	Area Operated By:				Total Area	
	Owners	Renters	Owners-Renters	Managers	Owned or Managed	Rented
	- thousand hectares -					
1941	3 744	1 386	1 637	69	4 698	2 138
1946	4 062	973	1 618	94	5 056	1 691
1951	4 264	722	2 019	170	5 580	1 595
1956	4 092	655	2 335	175	5 592	1 665
1961	3 722	552	2 843	236	5 551	1 802
1966	3 878	379	3 228	238	5 938	1 785
1971	3 581	371	3 740	NA	5 691	2 001
1976	3 283	479	3 938	NA	5 500	2 200
1981	2 668	579	4 369	NA	5 098	2 518
1986	NA	NA	NA	NA	4 871	2 869

Year	Area Operated By:				Total Area	
	Owners	Renters	Owners-Renters	Managers	Owned or Managed	Rented
	- thousand acres -					
1941	9,252	3,424	4,044	171	11,609	5,283
1946	10,038	2,404	3,997	232	12,494	4,178
1951	10,536	1,784	4,989	421	13,788	3,942
1956	10,111	1,618	5,770	433	13,818	4,113
1961	9,196	1,365	7,026	583	13,716	4,454
1966	9,584	936	7,977	587	14,673	4,411
1971	8,849	917	9,242	NA	14,063	4,945
1976	8,112	1,183	9,731	NA	13,591	5,435
1981	6,592	1,430	10,797	NA	12,596	6,223
1986	NA	NA	NA	NA	12,038	7,089

TABLE 107: Historical Value Per Unit of Farmland and Buildings, Manitoba and Canada

Year	$ per hectare		$ per acre	
	Manitoba	Canada	Manitoba	Canada
1956	86	96	35	39
1957	84	99	34	40
1958	89	106	36	43
1959	86	111	35	45
1960	94	119	38	48
1961	99	124	40	50
1962	99	128	40	52
1963	106	136	43	55
1964	121	151	49	61
1965	138	168	56	68
1966	153	188	62	76
1967	175	212	71	86
1968	193	235	78	95
1969	183	240	74	97
1970	180	242	73	98
1971	178	247	72	100
1972	190	267	77	108
1973	227	324	92	131
1974	297	423	120	171
1975	348	536	141	217
1976	418	635	169	257
1977	492	731	199	296
1978	610	867	247	351
1979	719	1,072	291	434
1980	875	1,352	354	547
1981	1,013	1,520	410	615
1982	939	1,517	380	614
1983	939	1,448	380	586
1984	907	1,379	367	558
1985	887	1,278	359	517
1986	850	1,181	344	478
1987	791	1,090	320	441
1988	726	1,077	294	436
1989	771	1,176	312	476
1990	830	1,233	336	499

TABLE 108: Census Farm and Total Population, 1941-1986

Year	Farms	Farm Population	Manitoba Population	Farm Percent of Total
1941	58,024	249,599	729,744	34.2
1946	54,448	224,919	726,923	30.9
1951	52,383	219,233	776,541	28.2
1956	49,201	202,163	850,040	23.8
1961	43,306	172,946	921,686	18.8
1966	39,747	161,662	963,066	16.8
1971	34,981	131,202	988,247	13.3
1976	32,104	114,115	1,021,506	11.2
1981	29,442	98,375	1,026,241	9.6
1986	27,336	86,505	1,071,232	8.1

TABLE 109: Percentage of Persons in Manitoba Farm Households, 15 Years of Age and Over and in the Labour Force, by Occupation, 1971, 1981, 1986

	1971		1981		1986	
Occupation	Number	%	Number	%	Number	%
Farm Operators	26,910	41	22,715	42	22,250	41
Farm Workers	16,970	26	8,750	16	10,460	19
Construction Occupation	2,405	4	1,965	4	1,800	3
Transport Equipment	1,655	3	1,450	3	1,320	2
Clerical and Related	2,285	3	3,585	7	3,720	7
Services Occupation	2,420	4	2,535	5	2,695	5
Teaching and Related	1,300	2	1,160	2	1,220	2
Sales Occupation	1,400	2	1,780	3	1,790	3
Medicine and Health	1,005	2	1,490	3	1,670	3
Product Fabricating	1,325	2	1,620	3	1,245	2
All Other Occupations	7,740	12	6,160	11	5,815	11
Not Specified	—	—	445	1	365	1
TOTAL	**65,405**	**100**	**53,660**	**100**	**54,345**	**100**

TABLE 110: Census Capital Investment Values, 1941-1986

Year	Land and Buildings	Machinery and Equipment	Livestock	Total	Per Farm
			- million dollars -		$
1941	229	59	51	339	5,800
1946	339	94	71	504	9,300
1951	529	232	156	917	17,500
1956	604	244	110	958	19,500
1961	720	272	162	1,154	26,600
1966	1,178	380	199	1,757	44,200
1971	1,374	412	270	2,056	58,800
1976	3,208	960	367	4,535	141,300
1981	7,836	1,823	792	10,451	355,000
1986	6,584	2,231	739	9,555	349,500

TABLE 111: Census Numbers of Machinery on Farms

Year	Tractors	Trucks	Combines	Swathers	Balers
1951	50,984	21,163	15,268	—	—
1956	59,265	28,556	21,425	—	—
1961	61,463	31,806	23,662	20,408	8,573
1966	65,552	36,689	24,815	23,530	12,712
1971	64,587	41,306	23,325	23,833	13,472
1976	67,077	49,844	23,467	23,843	14,173
1981	67,342	54,070	22,631	24,291	15,694
1986	73,945	57,502	21,946	24,528	15,317

TABLE 112: Historical Sales of Selected Farm Machinery

Year	Tractors	Combines	Swathers	Balers
1956	2,189	1,101	1,443	—
1957	2,015	877	861	963
1958	2,263	739	—	1,157
1959	2,486	1,009	768	1,547
1960	2,461	1,079	783	1,518
1961	1,803	496	743	1,043
1962	2,298	1,228	1,221	1,807
1963	2,735	1,378	1,328	1,187
1964	3,221	1,572	2,231	1,399
1965	3,037	1,900	2,339	1,212
1966	3,692	1,702	1,709	1,021
1967	2,973	1,454	1,838	642
1968	1,949	1,223	1,763	562
1969	1,610	642	1,100	537
1970	1,482	393	606	489
1971	1,138	482	772	485
1972	1,583	506	958	595
1973	2,371	856	1,462	779
1974	2,622	675	939	731
1975	2,823	856	1,471	1,007
1976	2,730	604	1,515	1,163
1977	2,190	1,012	1,131	850
1978	2,485	695	NA	297
1979	2,610	1,018	1,191	817
1980	2,251	781	1,249	810
1981	2,132	1,056	1,328	645
1982	1,787	636	977	465
1983	1,453	578	740	481
1984	1,550	580	787	383
1985	1,641	809	867	419
1986	1,378	591	430	529
1987[R]	1,005	245	575	464
1988[R]	1,040	145	601	510
1989	1,073	277	392	492
1990	1,010	302	190	470

TABLE 113: Historical Sales of Fertilizer

Year Ending June 30	Major Formulations[1]	Other Materials[2]	Total	Major Formulations[1]	Other Materials[2]	Total
	tonnes			tons		
1956	13 408	617	14 025	14,780	680	15,460
1957	13 526	684	14 210	14,910	754	15,664
1958	14 042	736	14 777	15,478	811	16,289
1959	18 329	807	19 136	20,204	890	21,094
1960	19 602	777	20 379	21,607	857	22,464
1961	26 022	1 130	27 152	28,684	1,246	29,930
1962	30 004	1 802	31 806	33,073	1,986	35,059
1963	41 376	1 376	42 752	45,608	1,517	47,125
1964	51 918	2 377	54 295	57,229	2,620	59,849
1965	65 104	2 420	67 525	71,764	2,668	74,432
1966	135 560	3 590	139 150	149,427	3,957	153,384
1967	160 425	3 902	164 327	176,835	4,301	181,136
1968	216 233	3 547	219 775	238,352	3,910	242,262
1969	124 874	3 888	128 763	137,648	4,286	141,934
1970	116 632	3 706	120 338	128,563	4,085	132,648
1971	172 860	4 354	177 213	190,542	4,799	195,341
1972	189 251	7 255	196 506	208,610	7,997	216,607
1973	271 469	6 125	277 593	299,238	6,751	305,989
1974	317 689	8 553	326 242	350,192	9,428	359,620
1975	340 129	4 521	344 650	374,928	4,983	379,911
1976	363 771	5 587	369 358	400,989	6,159	407,148
1977	360 072	7 037	367 109	396,908	7,757	404,665
1978	451 158	4 650	455 808	497,317	5,126	502,443
1979	538 900	4 800	543 700	594,029	5,291	599,320
1980	545 900	2 200	548 100	601,746	2,425	604,171
1981	513 000	4 000	517 000	565,480	4,409	569,889
1982[R]	517 800	3 500	521 300	570,777	3,900	574,677
1983	502 600	1 400	504 000	554,070	1 500	555,570
1984	583 200	5 500	588 700	642,800	6,100	648,900
1985	669 100	5 400	674 500	737,706	5,954	743,660
1986[R]	665 900	900	666 800	734,100	1,000	735,100
1987[R]	568 100	47 900	616 000	626,200	52,800	679,000
1988[R]	641 000	37 200	678 200	706,600	41,000	747,600
1989[R]	580 900	46 600	627 500	640,400	51,400	691,800
1990	610 900	47 200	658 100	673,400	52,000	725,400

[1] Includes ammonium phosphate, ammonium nitrate, urea, anhydrous ammonia, nitrogen solutions, ammonium sulphate, potassium chloride.

[2] Includes phosphates and sulphur solutions, mixed fertilizer materials and elemental sulphur and sulphate fertilizers not in "major formulations" category.

FARM FINANCES

TABLE 114: Historical Farm Input Price Indices[R] (1986 = 100), Western Canada

Year	Building and Fencing	Machinery & Motor Vehicles	Crop Production	Animal Production	Supplies and Services	Hired Farm Labour	Property Taxes	Interest	Farm Rent	Total Farm Inputs
1977	58.2	60.4	65.0	56.7	52.9	63.7				55.2
1978	63.6	66.5	67.3	73.2	56.8	67.6				62.4
1979	71.0	75.2	74.4	92.7	62.4	71.7				73.1
1980	74.5	84.6	92.9	91.4	68.1	76.9				80.4
1981	81.2	94.1	99.4	92.0	81.7	82.2	68.6	127.3	101.8	92.4
1982	86.7	93.6	97.6	91.7	89.2	87.4	80.5	124.5	104.1	95.5
1983	93.7	97.7	95.0	92.5	93.4	90.5	82.8	102.5	106.2	95.7
1984	92.7	100.0	98.1	94.1	98.0	94.3	87.8	113.5	98.5	98.5
1985	93.9	98.0	100.5	93.6	100.0	97.4	93.8	115.0	107.0	99.8
1986	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1987	102.8	99.0	93.5	104.5	101.7	102.4	97.9	97.3	83.1	98.7
1988	103.2	100.6	92.1	110.9	102.2	107.0	103.2	105.5	83.2	101.7
1989	105.1	102.9	99.0	110.8	102.1	112.5	107.2	119.9	95.2	106.2
1990	107.0	106.9	98.1	108.5	105.3	116.3	112.1	128.9	96.8	108.3

TABLE 115: Historical Farm Product Price Indices (1986 = 100)

	1981	1982	1983	1984	1985	1986	1987[R]	1988[R]	1989[R]	1990
TOTAL INDEX	**117.4**	**113.0**	**111.0**	**119.6**	**110.7**	**100.0**	**95.1**	**106.4**	**115.9**	**109.2**
TOTAL CROPS	**144.1**	**113.9**	**130.5**	**142.1**	**128.8**	**100.0**	**87.9**	**116.2**	**134.1**	**116.6**
Cereals	152.5	135.9	133.5	139.8	127.7	100.0	86.8	113.2	134.4	112.1
Oilseeds	129.3	127.7	131.5	161.0	140.1	100.0	83.5	130.5	135.5	127.9
All Other Crops[1]	110.8	110.8	105.4	120.9	114.0	100.0	104.6	109.9	128.2	128.1
TOTAL LIVESTOCK & PRODUCTS	**89.1**	**93.0**	**90.3**	**95.8**	**91.6**	**100.0**	**102.8**	**96.1**	**96.7**	**101.4**
Cattle and Calves	92.7	89.3	91.9	99.1	94.4	100.0	110.9	106.7	105.4	108.1
Hogs	81.1	96.9	82.1	84.3	78.9	100.0	97.7	74.6	72.4	88.6
Poultry	95.1	95.8	95.4	106.1	99.7	100.0	95.2	97.5	105.8	104.1
Eggs	99.3	96.4	96.9	105.0	102.4	100.0	92.0	98.8	106.5	94.4
Dairy	84.2	91.4	93.1	97.7	97.0	100.0	98.8	104.1	109.1	109.4
Other Livestock & Products[2]	111.1	113.5	110.6	105.1	100.6	100.0	93.5	84.9	74.6	80.1

[1] Includes fruits, vegetables (including potatoes), sugar beets and sunflower seed.

[2] Includes lambs, honey and fur.

TABLE 116: Historical Farm Cash Receipts

Year	Crop Receipts	Livestock Receipts	Other Receipts	Total Cash Receipts
		- thousand dollars -		
1956	114,421	93,853	2,771	211,045
1957	97,046	100,200	886	198,132
1958	100,752	121,042	9,009	230,803
1959	112,999	114,842	2,687	230,528
1960	113,719	108,193	10,925	232,837
1961	114,253	124,778	3,730	242,761
1962	136,379	114,225	12,113	262,717
1963	147,707	121,768	2,273	271,748
1964	170,778	128,266	2,486	301,530
1965	184,173	155,935	2,505	342,613
1966	200,084	172,842	4,953	377,879
1967	193,198	174,481	7,123	374,802
1968	187,754	170,713	6,396	364,863
1969	168,823	176,516	5,727	351,066
1970	128,703	202,614	10,110	341,427
1971	173,905	193,543	10,352	377,800
1972	238,844	238,876	18,989	496,709
1973	281,819	328,437	17,786	628,042
1974	481,012	332,025	14,127	827,164
1975	565,301	346,184	35,533	947,018
1976	489,781	353,412	43,410	886,603
1977	472,226	378,401	31,145	881,772
1978	595,864	498,186	49,804	1,143,854
1979	711,094	562,649	66,665	1,340,408
1980	819,870	595,536	76,281	1,491,687
1981	962,068	605,461	80,490	1,648,019
1982	1,004,734	668,614	47,609	1,720,957
1983	1,099,368	620,091	78,130	1,797,589
1984	1,157,012	688,418	134,201	1,979,631
1985	1,104,980	722,440	172,246	1,999,666
1986	1,067,447	769,371	237,746	2,074,564
1987[R]	806,374	808,018	477,557	2,091,949
1988[R]	865,247	761,621	431,831	2,058,699
1989[R]	891,555	758,471	449,853	2,099,879
1990	1,026,196	773,415	169,284	1,968,895

TABLE 117: Historical Farm Cash Receipts From Crop Sales

Year	Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Other Crops	Total Crops
				- thousand dollars -			
1956	50,534	11,641	23,594	16,611		12,041	114,421
1957	46,184	10,354	14,425	11,143		14,940	97,046
1958	58,122	7,649	16,156	7,952	295	10,578	100,752
1959	66,990	6,548	18,724	11,113	211	9,413	112,999
1960	66,349	6,378	15,108	12,189	754	12,941	113,719
1961	81,410	5,522	10,367	12,603	526	3,825	114,253
1962	77,416	10,129	11,395	20,654	884	15,901	136,379
1963	91,003	12,478	9,362	16,707	1,497	16,660	147,707
1964	99,832	12,423	10,059	29,323	3,047	16,094	170,778
1965	110,968	11,593	12,172	25,320	3,170	20,950	184,173
1966	114,363	14,457	13,936	33,996	4,619	18,713	200,084
1967	120,418	12,171	15,830	20,655	3,544	20,580	193,198
1968	109,486	11,292	17,127	15,192	3,103	31,554	187,754
1969	72,057	12,886	13,268	25,685	5,418	39,509	168,823
1970	72,317	6,347	21,472	17,613	9,727	1,227	128,703
1971	77,144	7,747	31,961	14,710	14,091	28,252	173,905
1972	113,272	11,553	45,302	12,988	19,901	35,828	238,844
1973	120,963	15,684	69,946	38,535	32,472	4,219	281,819
1974	225,296	14,649	100,889	61,350	50,120	28,708	481,012
1975	287,418	28,879	99,019	38,140	42,461	69,384	565,301
1976	243,166	23,883	80,402	39,881	29,040	73,409	489,781
1977	182,535	22,151	70,867	42,099	56,694	97,880	472,226
1978	234,187	15,681	99,334	54,594	90,696	101,372	595,864
1979	281,269	6,200	102,939	77,247	122,522	120,917	711,094
1980	388,022	4,907	93,564	92,919	99,492	140,966	819,870
1981	473,512	6,983	147,752	74,343	75,337	184,141	962,068
1982	512,010	7,211	161,038	67,409	99,509	157,557	1,004,734
1983	582,917	8,464	160,290	107,918	120,997	118,782	1,099,368
1984	618,065	8,406	134,887	96,942	138,996	159,716	1,157,012
1985	517,057	7,674	152,892	124,168	138,738	164,451	1,104,980
1986[R]	537,768	9,030	147,374	83,102	125,064	165,109	1,067,447
1987[R]	404,762	7,532	64,380	62,689	108,806	158,205	806,374
1988[R]	441,064	12,634	63,337	71,932	146,263	130,017	865,247
1989[R]	410,901	13,626	86,758	72,457	127,983	179,830	891,555
1990	565,350	8,738	95,732	56,207	99,731	200,438	1,026,196

TABLE 118: Historical Farm Cash Receipts From Livestock Sales

Year	Cattle & Calves	Hogs	Sheep & Lambs	Dairy Products	Poultry & Eggs	Other Livestock & Products	Total Livestock
				- thousand dollars -			
1956	28,356	14,996	406	23,051	21,551	5,493	93,853
1957	35,105	15,717	449	22,834	20,677	5,418	100,200
1958	46,556	20,501	484	25,040	23,086	5,375	121,042
1959	39,920	23,185	461	24,144	21,574	5,558	114,842
1960	40,298	17,884	466	23,868	20,570	5,107	108,193
1961	51,535	22,356	527	24,084	21,155	5,121	124,778
1962	44,074	20,628	445	24,096	19,970	5,012	114,225
1963	48,095	19,440	523	23,984	24,228	5,498	121,768
1964	51,026	23,582	544	23,699	23,972	5,443	128,266
1965[R]	71,573	27,415	462	23,255	26,233	6,997	155,935
1966[R]	78,326	35,084	346	22,055	30,464	6,567	172,842
1967[R]	80,557	37,280	325	22,665	27,445	6,209	174,481
1968[R]	76,234	36,074	244	23,075	29,763	5,323	170,713
1969[R]	68,167	44,324	255	23,551	34,743	5,476	176,516
1970[R]	81,239	58,021	213	23,890	34,367	4,884	202,614
1971	85,593	51,211	362	24,171	27,611	4,595	193,543
1972	105,548	66,293	362	28,183	32,173	6,317	238,876
1973	132,136	104,071	402	31,503	52,081	8,244	328,437
1974	131,791	94,758	497	42,951	54,005	8,023	332,025
1975	152,366	87,866	390	50,142	47,593	7,827	346,184
1976	155,618	79,877	383	52,087	55,843	9,604	353,412
1977	178,756	78,230	432	53,122	56,853	11,008	378,401
1978	260,375	105,026	657	57,335	59,492	15,301	498,186
1979	297,132	115,682	694	63,419	68,586	17,136	562,649
1980	306,756	117,432	860	75,491	75,618	17,379	595,536
1981	267,793	137,549	1,078	86,587	84,077	28,377	605,461
1982	286,854	169,466	1,096	95,944	84,683	30,571	668,614
1983	250,573	156,633	1,396	97,798	85,293	28,398	620,091
1984	273,287	185,928	1,536	104,926	93,398	29,343	688,418
1985	297,161	194,859	2,349	102,370	94,456	31,245	722,440
1986[R]	290,158	243,188	1,940	106,782	96,333	30,970	769,371
1987[R]	315,013	253,608	1,920	110,246	94,971	32,260	808,018
1988[R]	291,544	221,059	1,717	118,185	99,808	29,308	761,621
1989[R]	272,857	228,741	1,346	121,201	106,560	27,766	758,471
1990	269,798	254,017	1,503	118,455	101,831	27,811	773,415

TABLE 119: Historical Farm Operating Expenses and Depreciation Charges

Year	Machinery Operation	Dep. Bldgs. & Mach.	Interest on Debt	Rent & Taxes	Hired Labour	Feed & Seed Bought Comm.	Fert-ilizer	Other	Total Value (includes rebates from 1971)
					- thousand dollars -				
1956	41,176	31,249	6,412	16,759	11,058	11,055	1,571	11,797	131,077
1957	41,682	31,986	6,373	15,379	11,523	10,594	1,666	11,569	130,772
1958	41,396	32,397	6,662	16,862	11,930	12,324	1,584	12,849	136,004
1959	43,585	32,644	7,228	17,536	12,024	12,904	2,120	14,100	142,141
1960	46,518	33,692	7,790	19,166	12,108	13,611	2,213	15,200	150,298
1961	46,028	33,971	8,833	18,882	12,571	14,420	3,494	14,940	153,139
1962	47,540	34,777	10,109	21,110	12,338	21,753	3,237	17,074	167,938
1963	47,953	36,971	11,635	22,290	11,507	17,930	4,558	19,467	172,311
1964	49,613	40,289	14,119	22,339	11,530	19,514	5,925	21,931	185,260
1965	49,989	44,160	15,942	23,434	14,281	19,724	7,564	24,628	199,722
1966	51,551	48,150	17,948	23,829	14,341	24,487	15,302	27,966	223,574
1967	53,438	52,593	20,205	24,749	15,565	32,100	18,521	31,160	248,331
1968	54,919	55,967	23,593	25,961	15,964	28,058	24,772	33,104	262,338
1969	56,353	56,245	27,315	25,241	15,881	28,373	13,050	30,188	252,646
1970	57,573	55,633	22,173	24,938	15,943	29,359	10,906	30,543	247,068
1971[R]	60,949	53,478	22,275	22,152	16,228	30,939	15,780	48,839	270,640
1972[R]	65,567	55,190	31,487	25,253	16,891	36,896	18,903	59,813	310,000
1973[R]	76,247	60,089	28,210	35,301	18,925	53,233	26,708	71,014	369,727
1974[R]	96,805	77,967	38,512	40,800	22,921	72,156	36,732	91,605	477,498
1975[R]	105,862	104,760	43,997	50,074	26,900	75,269	59,390	108,080	574,332
1976[R]	116,982	129,358	57,735	54,375	28,174	81,730	65,274	129,933	663,561
1977[R]	129,142	144,682	63,062	62,316	31,050	84,556	73,516	152,486	740,810
1978[R]	147,582	164,248	81,506	75,908	35,121	88,146	101,402	169,427	863,340
1979[R]	162,145	191,918	118,584	93,268	41,255	116,498	133,540	210,926	1,068,134
1980[R]	182,814	222,211	147,996	107,578	49,576	150,440	145,361	227,080	1,233,056
1981[R]	248,757	249,600	210,582	115,010	63,176	153,403	162,959	275,020	1,478,507
1982[R]	273,208	266,368	187,595	124,927	76,832	147,992	167,540	279,778	1,524,240
1983[R]	292,740	275,760	167,325	130,042	74,992	169,352	188,069	297,601	1,595,881
1984[R]	298,068	274,696	171,452	137,746	86,341	200,327	211,073	315,198	1,694,903
1985[R]	302,232	263,781	162,314	143,690	99,015	193,141	219,153	351,647	1,734,973
1986[R]	273,253	271,002	160,371	136,880	100,691	199,079	198,446	333,950	1,673,672
1987[R]	275,121	263,395	163,787	106,669	106,927	198,366	187,191	349,974	1,651,430
1988[R]	251,916	266,932	168,113	122,754	116,899	210,865	194,405	370,204	1,702,088
1989[R]	274,916	271,096	176,954	137,400	125,712	231,824	185,248	401,031	1,804,181
1990	315,382	274,023	181,586	144,798	129,513	207,059	175,800	410,111	1,838,272

TABLE 120: Historical Farm Income Summary

Year	Total Cash Receipts	Income-in-Kind	Realized Gross Income	Operating & Dep. Cost	Realized Net Income	Value of Inventory Change	Total Net Income*
			- million dollars -				
1956[R]	211	13	224	131	93	32	124
1957[R]	198	13	211	131	80	-12	68
1958[R]	231	14	245	136	109	16	124
1959[R]	230	13	243	142	101	-4	97
1960[R]	233	12	245	150	95	8	103
1961[R]	243	12	255	153	102	-57	45
1962[R]	263	11	274	168	106	53	159
1963[R]	272	11	283	172	111	-4	107
1964[R]	302	10	312	185	127	29	156
1965[R]	343	11	354	200	154	10	164
1966[R]	378	10	388	224	164	-27	137
1967[R]	374	10	384	248	136	16	152
1968[R]	364	10	374	262	112	51	163
1969[R]	352	10	362	253	109	9	118
1970[R]	341	10	351	247	104	-15	89

	Total Cash Receipts	Operating Expenses After Rebates	Net Cash Income	Income-In-Kind	Depreciation Charges	Realized Net Income	Value of Inventory Change	Total Net Income*
				- million dollars -				
1971	378	217	161	9	53	116	39	155
1972	497	255	242	10	55	196	-32	164
1973	626	310	318	12	60	270	95	365
1974	827	400	428	10	78	360	-49	311
1975	947	470	477	9	105	382	9	391
1976	887	534	352	12	129	235	40	275
1977	882	596	286	10	145	151	130	281
1978	1,144	699	445	12	164	292	49	341
1979	1,340	876	464	13	192	285	-53	233
1980[R]	1,492	1,011	481	15	222	274	-234	40
1981	1,648	1,229	419	15	250	184	225	410
1982	1,721	1,258	463	14	266	211	78	289
1983	1,798	1,320	477	14	276	215	-163	52
1984[R]	1,980	1,420	559	14	275	299	14	313
1985	2,000	1,471	528	14	264	278	283	561
1986[R]	2,075	1,403	672	14	271	415	-37	378
1987[R]	2,092	1,388	704	14	263	455	-75	380
1988[R]	2,059	1,435	624	14	267	371	-220	150
1989[R]	2,100	1,533	567	14	271	310	142	451
1990	1,969	1,564	405	14	274	145	346	491

* Totals may not add due to rounding.

TABLE 121: Historical Per Farm Total Net Income and Total Receipts

Year	No. of Farms	Total Net Income (Production Minus Cost)	Cash (Sales)
		dollars per farm	
1956[R]	49,201	2,525	4,289
1957[R]	47,900	1,423	4,136
1958[R]	46,700	2,660	4,942
1959[R]	45,600	2,134	5,054
1960[R]	44,400	2,317	5,244
1961[R]	43,306	1,035	5,605
1962[R]	42,600	3,726	6,167
1963[R]	41,900	2,543	6,485
1964[R]	41,200	3,780	7,318
1965[R]	40,500	4,053	8,459
1966[R]	39,747	3,459	9,507
1967[R]	38,700	3,934	9,684
1968[R]	37,700	4,319	9,678
1969[R]	36,700	3,210	9,565
1970[R]	35,800	2,480	9,537
1971	34,981	4,427	10,800
1972	34,400	4,776	14,439
1973	33,825	10,801	18,567
1974	33,250	9,368	24,877
1975	32,675	11,959	28,983
1976	32,104	8,574	27,617
1977	31,600	8,887	27,904
1978	31,000	11,011	36,898
1979	30,500	7,624	43,948
1980	30,000	1,317	49,723
1981	29,442	13,915	55,975
1982	29,300	9,856	58,736
1983	29,000	1,805	61,986
1984	29,000	10,777	68,263
1985	28,700	19,562	69,675
1986[R]	27,336	13,839	75,891
1987[R]	27,336	13,885	76,527
1988[R]	27,200	5,533	75,687
1989[R]	26,800	16,843	78,354
1990	26,500	18,524	74,298

TABLE 122: Historical Monthly Precipitation in Winnipeg

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
							- millimetres -						
1965	6	14	14	65	91	60	80	34	65	14	44	38	525
1966	9	10	41	47	38	36	86	105	18	22	26	21	459
1967	21	9	17	73	28	50	111	57	23	45	15	21	470
1968	21	5	13	32	99	83	144	143	59	40	4	9	652
1969	48	9	10	25	77	105	101	57	61	27	9	19	548
1970	23	15	27	65	87	50	70	75	112	27	27	23	601
1971	11	4	44	60	47	76	115	17	50	72	22	6	524
1972	16	10	20	13	29	50	60	103	61	25	10	25	422
1973	3	6	14	21	103	88	123	66	82	37	40	19	602
1974	39	11	15	59	156	18	32	110	46	5	6	13	510
Average													
1965 - 1974	19.7	9.3	21.5	46.0	75.5	61.6	92.2	76.7	57.7	31.4	20.3	19.4	531.3
1975	46	16	19	45	48	120	58	133	42	38	13	17	595
1976	30	23	23	32	10	183	37	59	10	2	1	18	428
1977	12	21	10	5	178	88	85	90	148	30	29	19	715
1978	10	8	11	23	123	51	61	18	83	10	43	21	462
1979	9	20	45	73	93	65	23	76	25	16	15	11	471
1980	34	17	13	0	8	45	24	110	86	33	25	11	406
1981	23	3	15	13	48	90	39	104	72	60	6	7	480
1982	26	8	36	13	23	54	107	59	58	62	6	32	484
1983	13	15	66	6	29	139	30	85	53	22	16	6	480
1984	12	8	12	47	30	228	38	21	62	99	27	22	606
Average													
1975 - 1984	21.5	13.9	25.0	25.7	59.0	106.3	50.2	75.5	63.9	37.2	18.1	16.4	512.7
1985	11	13	7	16	64	67	34	218	29	29	44	14	546
1986	9.6	12.9	16.9	98.3	25.2	59.2	118.0	17.0	47.5	11.6	48.4	6.4	471
1987[R]	10.4	40.8	13.3	0.8	31.6	55.2	130.1	97.1	20.0	33.4	11.2	14.6	458.5
1988	8.8	10.7	24.2	0.8	29.9	94.9	70.8	8.5	61.3	26.8	21.3	22.5	380.5
1989[R]	52.2	5.6	20.0	15.9	26.0	150.2	33.4	76.6	10.0	16.6	17.4	17.0	440.9
1990	24.4	9.1	32.8	19.8	29.7	143.1	33.2	16.9	31.5	8.8	19.6	24.1	393.0
Average													
1985 - 1990	19.4	15.3	19.0	25.3	34.4	94.9	69.9	72.3	33.2	21.03	27.05	16.43	448.32

TABLE 122: Continued

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
							- inches -						
1965	0.22	0.55	0.53	2.55	3.60	2.37	3.15	1.36	2.55	0.57	1.74	1.51	20.70
1966	0.37	0.41	1.61	1.85	1.50	1.41	3.38	4.14	0.71	0.85	1.03	0.83	18.09
1967	0.81	0.37	0.69	2.86	1.11	1.98	4.37	2.25	0.89	1.78	0.58	0.83	18.52
1968	0.84	0.19	0.52	1.27	3.90	3.26	5.66	5.63	2.31	1.59	0.15	0.35	25.67
1969	1.87	0.34	0.39	1.00	3.02	4.13	3.99	2.25	2.40	1.07	0.37	0.74	21.57
1970	0.90	0.59	1.08	2.57	3.41	1.99	2.74	2.95	4.41	1.05	1.05	0.92	23.66
1971	0.42	0.18	1.72	2.37	1.85	2.99	4.53	0.67	1.96	2.84	0.88	0.23	20.64
1972	0.63	0.41	0.79	0.51	1.14	1.98	2.37	4.06	2.41	0.97	0.41	1.00	16.68
1973	0.10	0.25	0.54	0.83	4.06	3.47	4.84	2.58	3.23	1.46	1.58	0.75	23.69
1974	1.54	0.44	0.60	2.31	6.14	0.70	1.26	4.32	1.81	0.21	0.22	0.51	20.06
Average 1965 - 1974	0.78	0.37	0.85	1.81	2.97	2.43	3.63	3.02	2.27	1.24	0.80	0.76	20.92
1975	1.80	0.61	0.74	1.80	1.86	4.73	2.29	5.22	1.64	1.50	0.51	0.67	23.37
1976	1.17	0.91	0.91	1.24	0.41	7.19	1.45	2.32	0.39	0.10	0.03	0.72	16.84
1977	0.49	0.82	0.39	0.20	7.00	3.48	3.36	3.53	5.83	1.19	1.12	0.74	28.15
1978	0.40	0.30	0.45	0.90	4.83	2.03	2.38	0.73	3.25	0.40	1.68	0.82	18.17
1979	0.35	0.79	1.78	2.89	3.67	2.56	0.91	3.00	0.98	0.61	0.58	0.44	18.56
1980	1.34	0.69	0.52	0	0.31	1.77	0.93	4.32	3.37	1.30	0.98	0.43	15.96
1981	0.91	0.13	0.57	0.50	1.87	3.56	1.54	4.08	2.85	2.35	0.23	0.29	18.88
1982	1.01	0.31	1.41	0.52	0.92	2.13	4.21	2.32	2.29	2.44	0.22	1.25	19.03
1983	0.50	0.59	2.58	0.25	1.15	5.48	1.17	3.35	2.08	0.85	0.64	0.22	18.86
1984	0.48	0.31	0.46	1.85	1.17	8.97	1.51	0.85	2.44	3.90	1.05	0.88	23.87
Average 1975 - 1984	0.85	0.55	0.98	1.01	2.32	4.19	1.98	2.97	2.52	1.46	0.71	0.65	20.18
1985	0.44	0.53	0.28	0.63	2.52	2.64	1.34	8.58	1.14	1.14	1.73	0.55	21.50
1986	0.38	0.51	0.67	3.87	0.99	2.33	4.65	0.67	1.87	0.46	1.91	0.25	18.56
1987[R]	0.41	1.61	0.52	0.03	1.24	2.17	5.12	3.82	0.79	1.31	0.44	0.57	18.05
1988	0.35	0.42	0.95	0.03	1.18	3.74	2.79	0.33	2.41	1.06	0.84	0.89	14.98
1989[R]	2.06	0.22	0.79	0.63	1.02	5.91	1.31	3.02	0.39	0.65	0.69	0.67	17.36
1990	0.96	0.36	1.29	0.78	1.17	5.63	1.31	0.67	1.24	0.35	0.77	0.95	15.47
Average 1985 - 1990	0.77	0.61	0.75	0.99	1.35	3.74	2.75	2.85	1.19	0.84	1.06	0.65	17.65

TABLE 123: Historical Selected Seasonal Data

Year	Assiniboine River Entirely Clear of Ice at Winnipeg	Date Wheat Seeding Became General	Wheat Harvest Begun Generally	Ground Frozen So as to Stop General Field Work
1956	April 26	May 14	Aug. 15	Nov. 10
1957	April 19	May 4	Aug. 15	Nov. 15
1958	April 10	April 22	Aug. 20	Nov. 17
1959	April 15	April 23	Aug. 13	Nov. 3
1960	April 16	May 21	Aug. 19	Nov. 7
1961	April 21	May 15	Aug. 14	Nov. 5
1962	April 26	June 5	Sept. 3	Nov. 15
1963	April 12	June 1	Aug. 10	Nov. 20
1964	April 22	May 18	Aug. 17	Nov. 10
1965	April 16	May 26	Aug. 27	Nov. 7
1966	April 13	May 5	Aug. 23	Nov. 4
1967	April 23	May 20	Aug. 19	Nov. 21
1968	April 12	May 22	Aug. 27	Nov. 7
1969	April 19	May 21	Aug. 26	Nov. 11
1970	April 25	June 2	Aug. 25	Nov. 16
1971	April 19	May 18	Aug. 26	Oct. 30
1972	April 20	May 15	Aug. 29	Oct. 27
1973	April 5	May 10	Aug. 23	Oct. 30
1974	April 20	June 4	Sept. 10	Nov. 18
1975	April 18	May 16	Aug. 21	Nov. 20
1976	April 11	May 11	Aug. 14	Dec. 2
1977	April 12	May 10	Aug. 12	Nov. 22
1978	April 17	May 14	Aug. 31	Nov. 9
1979	April 25	June 7	Sept. 10	Nov. 22
1980	April 2	May 1	Aug. 26	Nov. 26
1981	April 2	May 2	Aug. 25	Nov. 28
1982	April 21	May 10	Aug. 30	Nov. 16
1983	April 7	May 11	Aug. 12	Nov. 17
1984	April 10	May 7	Aug. 9	Nov. 18
1985	April 4	May 5	Aug. 12	Nov. 19
1986	April 7	May 25	Aug. 26	Nov. 6
1987	April 5	May 5	Aug. 8	Nov. 9
1988	April 6	May 3	Aug. 8	Nov. 7
1989	April 8	May 9	Aug. 8	Nov. 16
1990	April 19	May 15	Aug. 14	Nov. 24

SOURCES AND METHODS

Preparation of this Yearbook was similar to that used since the series began in 1963. A large percentage of the material presented for the current year is based on preliminary estimates derived from sample data. Revisions of estimates made in previous Yearbooks are included in this report.

The regular statistics program of Manitoba Agriculture is the major source of material for the Yearbook. This involves close cooperation with Statistics Canada and coordination of information from many sources, including Agriculture Canada, other government and private agencies and business firms dealing in farm products and supplies. Farmers contribute through livestock and crop reporting, as do field and other staff members of Manitoba Agriculture. Basic data from Statistics Canada are derived from mail surveys in cooperation with Manitoba Agriculture. Survey samples vary from one percent to ten percent of farmers, depending on the type of information required.

Regional data for crop districts in the Yearbook can be supplemented by more detailed data for municipalities from the Census of Agriculture. The Census also provides some information on features of agriculture not covered in this Yearbook. Census division and crop district boundaries were changed in 1976 and Statistics Canada's estimates of crop production using the new boundaries were first made in 1977. Thus, small area estimates since 1977 are not comparable with earlier data.

Some figures may not add up due to rounding.

Crops

Total Value of Production. This includes all crops grown on farms in the current year for sale, feed, seed and home consumption at prevailing market prices during the crop year. Disposal of these crops for various uses in the current or subsequent years may have very little effect on the total value. With few exceptions, production value for each crop represents value to the producer. Prior to 1981, the farm value for grains and special crops was calculated from imperial data. For 1981 and beyond, the calculation is made from metric data.

Prices. Prices used to calculate production value for most crops are those farmers receive at the shipping point. This is regarded as farm value because freight, handling and other marketing charges are deducted. Transport costs incurred by farmers in delivering grain to elevators are included with farm expenses. Average prices for all crops are estimated final prices, based on Manitoba Agriculture market outlook work. As a result, production value is more comparable with previous years, since initial payments would grossly underestimate crop value. Prices are subject to revision after all relevant sales and payments have been made. Small revisions will be necessary in current prices of crops when more information on sales and payments is available.

Areas. Major crops areas are estimated by Statistics Canada in cooperation with Manitoba Agriculture. Minor crops, such as sugar beets, sunflowers and mustard seed, are estimated through contacts with dealers, processors and Department field staff. Estimates, in most cases, are for seeded area while yields are reported on the land devoted to a crop at seeding time. Oats and barley are on a harvested area basis. The November estimate (Statistics Canada 22-002) contains latest area and yield estimates, with a few exceptions as noted.

Yields. Major crop yields are derived from Statistics Canada surveys, integrated with the Manitoba crop reporting program. Minor crops are estimated mainly through the latter and revised as market data require. In some cases, yield multiplied by area may not exactly equal production, due to the rounding of one or more of the three items.

Wheat. Quality data on protein content are obtained from the Canadian Grain Commission. Distribution by grade is based on Wheat Board Special Questionnaire No. 1, November when elevator agents estimate the amounts of deliverable grain in each grade. Initial payments to producers are reported by the Wheat Board. Thunder Bay selling prices are recorded by the Canadian Grain Commission. Prices listed are rounded to the nearest cent while marketing data are provided by the Canadian Grain Commission. Such data are also published by Statistics Canada in the Coarse Grains Quarterly and Wheat Review.

Oats and Barley. Distribution by grades and initial payments have the same sources as wheat. Since private firms, in addition to the Wheat Board, sell these grains, Lakehead selling prices are Winnipeg Commodity Exchange cash quotations. Final prices are more closely represented than the Wheat Board selling price alone. Marketing data are from the same sources as wheat.

Flaxseed, Canola (rapeseed) and Other Crops. These were treated, for the most part, similarly to the above. Regional data were not always available but verbal description was used when possible. Sugar beets are on a harvested area basis. Values are at the factory level, obtained from the Manitoba Sugar Company. Estimates for the current year are based on the per unit value of product sold to date and do not include a final payment to be made when the entire crop has been sold. Deduction of freight would not allow the remaining figure to properly indicate the actual sugar beet price, as it would vary considerably depending on the farm location. Forage seed data are from Plant Products Division, Agriculture Canada and the forage specialist, Manitoba Agriculture.

Horticultural Crops. Included are vegetables, potatoes, fruit and ornamentals. The commercial vegetable area and prices are estimated jointly by Statistics Canada and Manitoba Agriculture. The processing potato area was obtained from the processors.

Different levels of prices are used with respect to processing, fresh market and farm-consumed potatoes to arrive at the total value. Other horticultural values, including fruit and ornamentals, are derived also in consultation with the provincial horticulturists.

Livestock

The production value of cattle and hogs includes inventory change. A gain in numbers on farms is a part of production, but a decline during the year is a loss in production. Inventory figures are from Statistics Canada surveys. Animals in the category "local slaughterings" are those farmers kill and eat, kill and sell, or sell locally for slaughter and consumption. These animals, as well as commercial marketings, are a part of production. Inshipments are those animals brought in from other provinces, usually Saskatchewan. To avoid double counting in the value of production, inshipments are deducted. Commercial marketings include estimates of direct exports to other provinces and the United States.

Prices of all classes of livestock marketed are taken from Agriculture Canada's publication "Livestock Market Review". From these figures the average dollar value per animal is calculated and applied to animals marketed.

Slaughterings and Quality. Data for cattle and hogs are obtained principally from Agriculture Canada's publication "Livestock Market Review".

Sheep. Sources are the same as those for cattle and hogs. The production calculation is based on an estimate of the number of lambs produced during the year. Wool data are from Statistics Canada.

Dairy. Production figures are obtained from Statistics Canada publication 23-001 and the Manitoba Milk Producers' Marketing Board. The supplementary payments are not allocated to the different classes of milk but are added in the total value of dairy production.

Poultry. Production and price information is taken from Statistics Canada catalogue No. 23-202, Agriculture Canada's "Poultry Market Review" and Manitoba Agriculture's poultry specialist. Monthly egg prices are obtained from the Canadian Egg Marketing Agency. The value of hatching eggs is estimated by Manitoba Agriculture.

Broiler production is calculated on the basis of registered marketings. Roasting chickens are calculated according to placements as indicated by Agriculture Canada's Hatchery Outlook publication and allowing for a ten percent mortality figure. Broiler turkeys are listed equal to registered marketings of turkeys, 4.5359 kilograms and under (ten pounds and under), and roasting birds are estimated according to marketings and other information. Ducks are listed according to marketings plus an on-farm allowance. Geese are shown according to marketings, exports and Agriculture Canada survey data. Poultry meat prices are calculated per bird according to average weights and information on recorded prices by Agriculture Canada.

Other Products

Honey. Production estimates are made cooperatively by Statistics Canada and Manitoba Agriculture.

Fur. Data for fur farms are obtained from Statistics Canada's publication 23-208, while information on wildlife pelts is taken from catalogue No. 23-207.

Forest. Products are those listed as sales in Statistics Canada farm income estimates.

Resources

Most resource information for Census years are from Statistics Canada, Census Division.

Farm Numbers. These are taken from the Census according to the current definition of a farm. In 1966 and 1971, a farm was defined as an agricultural holding of 0.40469 hectares (one acre) or more with sales during the previous twelve months of $50.00 or more. Previous definitions were less restrictive. The 1981 and 1986 Census definitions refer to agricultural holdings with sales of agricultural products during the past twelve months of $250.00 or more. Farm estimates for intervening years are unofficial estimates by Manitoba Agriculture.

Labour Force. Statistics are from the Labour Census, Statistics Canada 94-921 and the Census of Agriculture 96-908. Wages come from Statistics Canada.

Machinery. Sales data are from the Canadian Farm and Industrial Equipment Institute.

Fertilizer. Sales data are from the Western Canada Fertilizer Association.

Land Values

Data are obtained from Statistics Canada.

Farm Input Price Index

This index comes from Statistics Canada, catalogue No. 62-004 and measures the price changes of goods and services purchased by Western Canadian farmers for use in agricultural production. Items included are weighted according to relative importance and grouped according to farm use.

The groups in the Farm Input Price Index consist of the following sub groups or items.

Building and Fencing - includes building replacement and repairs (materials and labour) and fencing construction and repairs.

Machinery and Motor Vehicles - includes tractors, combines, ploughs, disc harrows, grain drills, manure spreaders, balers, automobiles and trucks, petroleum products, maintenance, licence and motor vehicle insurance.

Crop Production - includes grains, legumes and grass, seed, fertilizer, pesticides, twine and crop insurance.

Animal Production - includes feeder livestock, cattle, hogs, chicks and turkey poults, feed - prepared and grain feed; artificial insemination and veterinary services.

Supplies and Services - includes small tools, electricity, telephone and custom work.

Hired Labour - includes hourly, daily and monthly rates.

Farm Product Price Index

The Farm Product Price Index (FPPI), formerly called Index Numbers of Farm Prices of Agricultural Products, gives a measure of the change over time in the prices received by farmers for agricultural commodities at the first point of sale. The Index is found in Statistics Canada's catalogue No. 62-003.

The Index is based on products accounting for about 95 percent of total farm cash receipts.

The price information used in compiling the index comes from a monthly survey of farm correspondents (Statistics Canada), and administrative data. Bonuses and premiums are included in the prices but storage, transportation costs, processing and handling charges are excluded.

Correspondents report the average prices prevailing in an area after grades are considered.

The average prices would vary due to price and/or quality changes. In effect, the Index does not measure pure price change but only the change in revenue to farmers per unit of product marketed. Adjustments for seasonal variation in prices are not made.

Income

Cash and net farm income and expense data on a provincial basis are obtained from Statistics Canada's most recent published estimates.

Calculations on a per farm basis are made by Manitoba Agriculture and may not truly reflect exact averages. Census farms, as a basis, are not the only contributors to total sales. Small units, not called farms, do sell produce, but the amounts are minimal. Per farm figures are rounded to the nearest $100.00.

Weather Data

These are obtained on a regular basis for Manitoba Agriculture Reporting Program from the Environment Canada, Atmospheric Environment Service, Winnipeg Climate Centre, Room 1000, 266 Graham Avenue, Winnipeg, Manitoba, R3C 3V4.

Metric Conversion Factors

1 acre = 0.40469 hectares
1 pound = 0.45359 kilograms
1 ounce = 28.35 grams
1 Imperial ton = 0.907185 tonnes
1 Imperial bushel = 0.036368 cubic metres
1 Imperial gallon = 4.546 litres
1 Imperial fluid ounce = 28.413 millilitres
1 foot = 0.3048 metres
1 inch = 2.54 centimetres
°C (Celsius) = 5/9 (°Fahrenheit - 32)